

## SEQUENCE LISTING

<110> INCYTE GENOMICS, INC.  
TANG, Y. Tom  
HILLMAN, Jennifer L.  
BANDMAN, Olga  
YUE, Henry  
BAUGHN, Mariah R.  
LAL, Preeti  
LU, Dyung Aina M.  
SHAH, Purvi  
AZIMZAI, Yalda

<120> HUMAN SYNTHETASES

<130> PF-0721 PCT

<140> To Be Assigned  
<141> Herewith

<150> 60/144,992; 60,168,858  
<151> 1999-07-22; 1999-12-02

<160> 30  
<170> PERL Program

<210> 1  
<211> 1176  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1806212CD1

<400> 1  
Met Ala Glu Arg Lys Gly Thr Ala Lys Val Asp Phe Leu Lys Lys  
1 5 10 15  
Ile Glu Lys Glu Ile Gln Gln Lys Trp Asp Thr Glu Arg Val Phe  
20 25 30  
Glu Val Asn Ala Ser Asn Leu Glu Lys Gln Thr Ser Lys Gly Lys  
35 40 45  
Tyr Phe Val Thr Phe Pro Tyr Pro Tyr Met Asn Gly Arg Leu His  
50 55 60  
Leu Gly His Thr Phe Ser Leu Ser Lys Cys Glu Phe Ala Val Gly  
65 70 75  
Tyr Gln Arg Leu Lys Gly Lys Cys Cys Leu Phe Pro Phe Gly Leu  
80 85 90  
His Cys Thr Gly Met Pro Ile Lys Ala Cys Ala Asp Lys Leu Lys  
95 100 105  
Arg Glu Ile Glu Leu Tyr Gly Cys Pro Pro Asp Phe Pro Asp Glu  
110 115 120  
Glu Glu Glu Glu Glu Glu Thr Ser Val Lys Thr Glu Asp Ile Ile  
125 130 135  
Ile Lys Asp Lys Ala Lys Gly Lys Lys Ser Lys Ala Ala Ala Lys  
140 145 150  
Ala Gly Ser Ser Lys Tyr Gln Trp Gly Ile Met Lys Ser Leu Gly  
155 160 165  
Leu Ser Asp Glu Glu Ile Val Lys Phe Ser Glu Ala Glu His Trp  
170 175 180  
Leu Asp Tyr Phe Pro Pro Leu Ala Ile Gln Asp Leu Lys Arg Met  
185 190 195

Gly Leu Lys Val Asp Trp Arg Arg Ser Phe Ile Thr Thr Asp Val  
 300 205 210  
 Asn Pro Tyr Tyr Asp Ser Phe Val Arg Trp Gln Phe Leu Thr Leu  
 215 220 225  
 Arg Glu Arg Asn Lys Ile Lys Phe Gly Lys Arg Tyr Thr Ile Tyr  
 230 235 240  
 Ser Pro Lys Asp Gly Gln Pro Cys Met Asp His Asp Arg Gln Thr  
 245 250 255  
 Gly Glu Gly Val Gly Pro Gln Glu Tyr Thr Leu Leu Lys Leu Lys  
 260 265 270  
 Val Leu Glu Pro Tyr Pro Ser Lys Leu Ser Gly Leu Lys Gly Lys  
 275 280 285  
 Asn Ile Phe Leu Val Ala Ala Thr Leu Arg Pro Glu Thr Met Phe  
 290 295 300  
 Gly Gln Thr Asn Cys Trp Val Arg Pro Asp Met Lys Tyr Ile Gly  
 305 310 315  
 Phe Glu Thr Val Asn Gly Asp Ile Phe Ile Cys Thr Gln Lys Ala  
 320 325 330  
 Ala Arg Asn Met Ser Tyr Gln Gly Phe Thr Lys Asp Asn Gly Val  
 335 340 345  
 Val Pro Val Val Lys Glu Leu Met Gly Glu Glu Ile Leu Gly Ala  
 350 355 360  
 Ser Leu Ser Ala Pro Leu Thr Ser Tyr Lys Val Ile Tyr Val Leu  
 365 370 375  
 Pro Met Leu Thr Ile Lys Glu Asp Lys Gly Thr Gly Val Val Thr  
 380 385 390  
 Ser Val Pro Ser Asp Ser Pro Asp Asp Ile Ala Ala Leu Arg Asp  
 395 400 405  
 Leu Lys Lys Lys Gln Ala Leu Arg Ala Lys Tyr Gly Ile Arg Asp  
 410 415 420  
 Asp Met Val Leu Pro Phe Glu Pro Val Pro Val Ile Glu Ile Pro  
 425 430 435  
 Gly Phe Gly Asn Leu Ser Ala Val Thr Ile Cys Asp Glu Leu Lys  
 440 445 450  
 Ile Gln Ser Gln Asn Asp Arg Glu Lys Leu Ala Glu Ala Lys Glu  
 455 460 465  
 Lys Ile Tyr Leu Lys Gly Phe Tyr Glu Gly Ile Met Leu Val Asp  
 470 475 480  
 Gly Phe Lys Gly Gln Lys Val Gln Asp Val Lys Lys Thr Ile Gln  
 485 490 495  
 Lys Lys Met Ile Asp Ala Gly Asp Ala Leu Ile Tyr Met Glu Pro  
 500 505 510  
 Glu Lys Gln Val Met Ser Arg Ser Ser Asp Glu Cys Val Val Ala  
 515 520 525  
 Leu Cys Asp Gln Trp Tyr Leu Asp Tyr Gly Glu Glu Asn Trp Lys  
 530 535 540  
 Lys Gln Thr Ser Gln Cys Leu Lys Asn Leu Glu Thr Phe Cys Glu  
 545 550 555  
 Glu Thr Arg Arg Asn Phe Glu Ala Thr Leu Gly Trp Leu Gln Glu  
 560 565 570  
 His Ala Cys Ser Arg Thr Tyr Gly Leu Gly Thr His Leu Pro Trp  
 575 580 585  
 Asp Glu Gln Trp Leu Ile Glu Ser Leu Ser Asp Ser Thr Ile Tyr  
 590 595 600  
 Met Ala Phe Tyr Thr Val Ala His Leu Leu Gln Gly Gly Asn Leu  
 605 610 615  
 His Gly Gln Ala Glu Ser Pro Leu Gly Ile Arg Pro Gln Gln Met  
 620 625 630  
 Thr Lys Glu Val Trp Asp Tyr Val Phe Phe Lys Glu Ala Pro Phe  
 635 640 645  
 Pro Lys Thr Gln Ile Ala Lys Glu Lys Leu Asp Gln Leu Lys Gln  
 650 655 660  
 Glu Phe Glu Phe Trp Tyr Pro Val Asp Leu Arg Val Ser Gly Lys  
 665 670 675  
 Asp Leu Val Pro Asn His Leu Ser Tyr Tyr Leu Tyr Asn His Val

680	685	690
Ala Met Trp Pro Glu Gln Ser Asp Lys	Trp Pro Thr Ala Val	Arg
695	700	705
Ala Asn Gly His Leu Leu Leu Asn Ser	Glu Lys Met Ser Lys	Ser
710	715	720
Thr Gly Asn Phe Leu Thr Leu Thr Gln	Ala Ile Asp Lys Phe	Ser
725	730	735
Ala Asp Gly Met Arg Leu Ala Leu Ala	Asp Ala Gly Asp Thr	Val
740	745	750
Glu Asp Ala Asn Phe Val Glu Ala Met	Ala Asp Ala Gly Ile	Leu
755	760	765
Arg Leu Tyr Thr Trp Val Glu Trp Val	Lys Glu Met Val Ala	Asn
770	775	780
Trp Asp Ser Leu Arg Ser Gly Pro Ala	Ser Thr Phe Asn Asp	Arg
785	790	795
Val Phe Ala Ser Glu Leu Asn Ala Gly	Ile Ile Lys Thr Asp	Gln
800	805	810
Asn Tyr Glu Lys Met Met Phe Lys Glu	Ala Leu Lys Thr Gly	Phe
815	820	825
Phe Glu Phe Gln Ala Ala Lys Asp Lys	Tyr Arg Glu Leu Ala	Val
830	835	840
Glu Gly Met His Arg Glu Leu Val Phe	Arg Phe Ile Glu Val	Gln
845	850	855
Thr Leu Leu Leu Ala Pro Phe Cys Pro	His Leu Cys Glu His	Ile
860	865	870
Trp Thr Leu Leu Gly Lys Pro Asp Ser	Ile Met Asn Ala Ser	Trp
875	880	885
Pro Val Ala Gly Pro Val Asn Glu Val	Leu Ile His Ser Ser	Gln
890	895	900
Tyr Leu Met Glu Val Thr His Asp Leu	Arg Leu Arg Leu Lys	Asn
905	910	915
Tyr Met Met Pro Ala Lys Gly Lys Lys	Thr Asp Lys Gln Pro	Leu
920	925	930
Gln Lys Pro Ser His Cys Thr Ile Tyr	Val Ala Lys Asn Tyr	Pro
935	940	945
Pro Trp Gln His Thr Thr Leu Ser Val	Leu Arg Lys His Phe	Glu
950	955	960
Ala Asn Asn Gly Lys Leu Pro Asp Asn	Lys Val Ile Ala Ser	Glu
965	970	975
Leu Gly Ser Met Pro Glu Leu Lys Lys	Tyr Met Lys Lys Val	Met
980	985	990
Pro Phe Val Ala Met Ile Lys Glu Asn	Leu Glu Lys Met Gly	Pro
995	1000	1005
Arg Ile Leu Asp Leu Gln Leu Glu Phe	Asp Glu Lys Ala Val	Leu
1010	1015	1020
Met Glu Asn Ile Val Tyr Leu Thr Asn	Ser Leu Glu Leu Glu	His
1025	1030	1035
Ile Glu Val Lys Phe Ala Ser Glu Ala	Glu Asp Lys Ile Arg	Glu
1040	1045	1050
Asp Cys Cys Pro Gly Lys Pro Leu Asn	Val Phe Arg Ile Glu	Pro
1055	1060	1065
Gly Val Ser Val Ser Leu Val Asn Pro	Gln Pro Ser Asn Gly	His
1070	1075	1080
Phe Ser Thr Lys Ile Glu Ile Arg Gln	Gly Asp Asn Cys Asp	Ser
1085	1090	1095
Ile Ile Arg Arg Leu Met Lys Met Asn	Arg Gly Ile Lys Asp	Leu
1100	1105	1110
Ser Lys Val Lys Leu Met Arg Phe Asp	Asp Pro Leu Leu Gly	Pro
1115	1120	1125
Arg Arg Val Pro Val Leu Gly Lys Glu	Tyr Thr Glu Lys Thr	Pro
1130	1135	1140
Ile Ser Glu His Ala Val Phe Asn Val	Asp Leu Met Ser Lys	Lys
1145	1150	1155
Ile His Leu Thr Glu Asn Gly Ile Arg	Val Asp Ile Gly Asp	Thr
1160	1165	1170

Ile Ile Tyr Leu Val His  
1175

<210> 2

<211> 739

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2083883CD1

<400> 2

Met	Asp	Ala	Leu	Lys	Pro	Pro	Cys	Leu	Trp	Arg	Asn	His	Glu	Arg
1														
										10			15	
Gly	Lys	Lys	Asp	Arg	Asp	Ser	Cys	Gly	Arg	Lys	Asn	Ser	Glu	Pro
										25			30	
Gly	Ser	Pro	His	Ser	Leu	Glu	Ala	Leu	Arg	Asp	Ala	Ala	Pro	Ser
										40			45	
Gln	Gly	Leu	Asn	Phe	Leu	Leu	Phe	Thr	Lys	Met	Leu	Phe	Ile	
										55			60	
Phe	Asn	Phe	Leu	Phe	Ser	Pro	Leu	Pro	Thr	Pro	Ala	Leu	Ile	Cys
										70			75	
Ile	Leu	Thr	Phe	Gly	Ala	Ala	Ile	Phe	Leu	Trp	Leu	Ile	Thr	Arg
										85			90	
Pro	Gln	Pro	Val	Leu	Pro	Leu	Leu	Asp	Leu	Asn	Asn	Gln	Ser	Val
										100			105	
Gly	Ile	Glu	Gly	Gly	Ala	Arg	Lys	Gly	Val	Ser	Gln	Lys	Asn	Asn
										115			120	
Asp	Leu	Thr	Ser	Cys	Cys	Phe	Ser	Asp	Ala	Lys	Thr	Met	Tyr	Glu
										130			135	
Val	Phe	Gln	Arg	Gly	Leu	Ala	Val	Ser	Asp	Asn	Gly	Pro	Cys	Leu
										145			150	
Gly	Tyr	Arg	Lys	Pro	Asn	Gln	Pro	Tyr	Arg	Trp	Leu	Ser	Tyr	Lys
										160			165	
Gln	Val	Ser	Asp	Arg	Ala	Glu	Tyr	Leu	Gly	Ser	Cys	Leu	Leu	His
										175			180	
Lys	Gly	Tyr	Lys	Ser	Ser	Pro	Asp	Gln	Phe	Val	Gly	Ile	Phe	Ala
										190			195	
Gln	Asn	Arg	Pro	Glu	Trp	Ile	Ile	Ser	Glu	Leu	Ala	Cys	Tyr	Thr
										205			210	
Tyr	Ser	Met	Val	Ala	Val	Pro	Leu	Tyr	Asp	Thr	Leu	Gly	Pro	Glu
										220			225	
Ala	Ile	Val	His	Ile	Val	Asn	Lys	Ala	Asp	Ile	Ala	Val	Val	Ile
										235			240	
Cys	Asp	Thr	Pro	Gln	Lys	Ala	Leu	Val	Leu	Ile	Gly	Asn	Val	Glu
										250			255	
Lys	Gly	Phe	Thr	Pro	Ser	Leu	Lys	Val	Ile	Ile	Leu	Met	Asp	Pro
										265			270	
Phe	Asp	Asp	Asp	Leu	Lys	Gln	Arg	Gly	Glu	Lys	Ser	Gly	Ile	Glu
										280			285	
Ile	Leu	Ser	Leu	Tyr	Asp	Ala	Glu	Asn	Leu	Gly	Lys	Glu	His	Phe
										295			300	
Arg	Lys	Pro	Val	Pro	Pro	Ser	Pro	Glu	Asp	Leu	Ser	Val	Ile	Cys
										310			315	
Phe	Thr	Ser	Gly	Thr	Thr	Gly	Asp	Pro	Lys	Gly	Ala	Met	Ile	Thr
										325			330	
His	Gln	Asn	Ile	Val	Ser	Asn	Ala	Ala	Ala	Phe	Leu	Lys	Cys	Val
										340			345	
Glu	His	Aia	Tyr	Glu	Pro	Thr	Pro	Asp	Asp	Val	Ala	Ile	Ser	Tyr
										355			360	
Leu	Pro	Leu	Ala	His	Met	Phe	Glu	Arg	Ile	Val	Gln	Ala	Val	Val
										370			375	
Tyr	Ser	Cys	Gly	Ala	Arg	Val	Gly	Phe	Phe	Gln	Gly	Asp	Ile	Arg
										385			390	
Leu	Leu	Ala	Asp	Asp	Met	Lys	Thr	Leu	Lys	Pro	Thr	Leu	Phe	Pro

395	400	405
Ala Val Pro Arg Leu Leu Asn Arg Ile Tyr Asp Lys Val Gln Asn		
410	415	420
Glu Ala Lys Thr Pro Leu Lys Lys Phe Leu Leu Lys Leu Ala Val		
425	430	435
Ser Ser Lys Phe Lys Glu Leu Gln Lys Gly Ile Ile Arg His Asp		
440	445	450
Ser Phe Trp Asp Lys Leu Ile Phe Ala Lys Ile Gln Asp Ser Leu		
455	460	465
Gly Gly Arg Val Arg Val Ile Val Thr Gly Ala Ala Pro Met Ser		
470	475	480
Thr Ser Val Met Thr Phe Phe Arg Ala Ala Met Gly Cys Gln Val		
485	490	495
Tyr Glu Ala Tyr Gly Gln Thr Glu Cys Thr Gly Gly Cys Thr Phe		
500	505	510
Thr Leu Pro Gly Asp Trp Thr Ser Gly His Val Gly Val Pro Leu		
515	520	525
Ala Cys Asn Tyr Val Lys Leu Glu Asp Val Ala Asp Met Asn Tyr		
530	535	540
Phe Thr Val Asn Asn Glu Gly Glu Val Cys Ile Lys Gly Thr Asn		
545	550	555
Val Phe Lys Gly Tyr Leu Lys Asp Pro Glu Lys Thr Gln Glu Ala		
560	565	570
Leu Asp Ser Asp Gly Trp Leu His Thr Gly Asp Ile Gly Arg Trp		
575	580	585
Leu Pro Asn Gly Thr Leu Lys Ile Ile Asp Arg Lys Lys Asn Ile		
590	595	600
Phe Lys Leu Ala Gln Gly Glu Tyr Ile Ala Pro Glu Lys Ile Glu		
605	610	615
Asn Ile Tyr Asn Arg Ser Gln Pro Val Leu Gln Ile Phe Val His		
620	625	630
Gly Glu Ser Leu Arg Ser Ser Leu Val Gly Val Val Val Pro Asp		
635	640	645
Thr Asp Val Leu Pro Ser Phe Ala Ala Lys Leu Gly Val Lys Gly		
650	655	660
Ser Phe Glu Glu Leu Cys Gln Asn Gln Val Val Arg Glu Ala Ile		
665	670	675
Leu Glu Asp Leu Gln Lys Ile Gly Lys Glu Ser Gly Leu Lys Thr		
680	685	690
Phe Glu Gln Val Lys Ala Ile Phe Leu His Pro Glu Pro Phe Ser		
695	700	705
Ile Glu Asn Gly Leu Leu Thr Pro Thr Leu Lys Ala Lys Arg Gly		
710	715	720
Glu Leu Ser Lys Tyr Phe Arg Thr Gln Ile Asp Ser Leu Tyr Glu		
725	730	735
His Ile Gln Asp		

<210> 3  
 <211> 589  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2454288CD1

<400> 3			
Met Pro Thr Val Ser Val Lys Arg Asp Leu Leu Phe Gln Ala Leu			
1	5	10	15
Gly Arg Thr Tyr Thr Asp Glu Glu Phe Asp Glu Leu Cys Phe Glu			
20	25	30	
Phe Gly Leu Glu Leu Asp Glu Ile Thr Ser Glu Lys Glu Ile Ile			
35	40	45	
Ser Lys Glu Gln Gly Asn Val Lys Ala Ala Gly Ala Ser Asp Val			
50	55	60	

Val Leu Tyr Lys Ile Asp Val Pro Ala Asn Arg Tyr Asp Leu Leu  
 65 70 75  
 Cys Leu Glu Gly Leu Val Arg Gly Leu Gln Val Phe Lys Glu Arg  
 80 85 90  
 Ile Lys Ala Pro Val Tyr Lys Arg Val Met Pro Asp Gly Lys Ile  
 95 100 105  
 Gln Lys Leu Ile Ile Thr Glu Glu Thr Ala Lys Ile Arg Pro Phe  
 110 115 120  
 Ala Val Ala Ala Val Leu Arg Asn Ile Lys Phe Thr Lys Asp Arg  
 125 130 135  
 Tyr Asp Ser Phe Ile Glu Leu Gln Glu Lys Leu His Gln Asn Ile  
 140 145 150  
 Cys Arg Lys Arg Ala Leu Val Ala Ile Gly Thr His Asp Leu Asp  
 155 160 165  
 Thr Leu Ser Gly Pro Phe Thr Tyr Thr Ala Lys Arg Pro Ser Asp  
 170 175 180  
 Ile Lys Phe Lys Pro Leu Asn Lys Thr Lys Glu Tyr Thr Ala Cys  
 185 190 195  
 Glu Leu Met Asn Ile Tyr Lys Thr Asp Asn His Leu Lys His Tyr  
 200 205 210  
 Leu His Ile Ile Glu Asn Lys Pro Leu Tyr Pro Val Ile Tyr Asp  
 215 220 225  
 Ser Asn Gly Val Val Leu Ser Met Pro Pro Ile Ile Asn Gly Asp  
 230 235 240  
 His Ser Arg Ile Thr Val Asn Thr Arg Asn Ile Phe Ile Glu Cys  
 245 250 255  
 Thr Gly Thr Asp Phe Thr Lys Ala Lys Ile Val Leu Asp Ile Ile  
 260 265 270  
 Val Thr Met Phe Ser Glu Tyr Cys Glu Asn Gln Phe Thr Val Glu  
 275 280 285  
 Ala Ala Glu Val Val Phe Pro Asn Gly Lys Ser His Thr Phe Pro  
 290 295 300  
 Glu Leu Ala Tyr Arg Lys Glu Met Val Arg Ala Asp Leu Ile Asn  
 305 310 315  
 Lys Lys Val Gly Ile Arg Glu Thr Pro Glu Asn Leu Ala Lys Leu  
 320 325 330  
 Leu Thr Arg Met Tyr Leu Lys Ser Glu Val Ile Gly Asp Gly Asn  
 335 340 345  
 Gln Ile Glu Ile Glu Ile Pro Pro Thr Arg Ala Asp Ile Ile His  
 350 355 360  
 Ala Cys Asp Ile Val Glu Asp Ala Ala Ile Ala Tyr Gly Tyr Asn  
 365 370 375  
 Asn Ile Gln Met Thr Leu Pro Lys Thr Tyr Thr Ile Ala Asn Gln  
 380 385 390  
 Phe Pro Leu Asn Lys Leu Thr Glu Leu Leu Arg His Asp Met Ala  
 395 400 405  
 Ala Ala Gly Phe Thr Glu Ala Leu Thr Phe Ala Leu Cys Ser Gln  
 410 415 420  
 Glu Asp Ile Ala Asp Lys Leu Gly Val Asp Ile Ser Ala Thr Lys  
 425 430 435  
 Ala Val His Ile Ser Asn Pro Lys Thr Ala Glu Phe Gln Val Ala  
 440 445 450  
 Arg Thr Thr Leu Leu Pro Gly Leu Leu Lys Thr Ile Ala Ala Asn  
 455 460 465  
 Arg Lys Met Pro Leu Pro Leu Lys Leu Phe Glu Ile Ser Asp Ile  
 470 475 480  
 Val Ile Lys Asp Ser Asn Thr Asp Val Gly Ala Lys Asn Tyr Arg  
 485 490 495  
 His Leu Cys Ala Val Tyr Tyr Asn Lys Asn Pro Gly Phe Glu Ile  
 500 505 510  
 Ile His Gly Leu Leu Asp Arg Ile Met Gln Leu Leu Asp Val Pro  
 515 520 525  
 Pro Gly Glu Asp Lys Gly Gly Tyr Val Ile Lys Ala Ser Glu Gly  
 530 535 540  
 Pro Ala Phe Phe Pro Gly Arg Cys Ala Glu Ile Phe Ala Arg Gly

	545		550		555									
Gln	Ser	Val	Gly	Lys	Leu	Gly	Val	Leu	His	Pro	Asp	Val	Ile	Thr
				560					565				570	
Lys	Phe	Glu	Leu	Thr	Met	Pro	Cys	Ser	Ser	Leu	Glu	Ile	Asn	Ile
				575					580				585	
Gly	Pro	Phe	Leu											

<210> 4  
<211> 157  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1513539CD1

<400> 4

Met	Lys	Leu	Lys	Cys	Ile	Phe	Gly	Ala	Thr	Lys	Glu	Thr	Ser	
1				5					10			15		
Cys	Tyr	Asn	Val	Thr	Asn	Ile	Gly	Phe	Lys	Ser	Pro	Ser	Asp	Phe
				20					25			30		
Trp	Gln	Ser	Val	His	Ser	Thr	Leu	Pro	Arg	Glu	Leu	Ala	Pro	Cys
				35					40			45		
Leu	Val	Phe	Asn	Thr	Ser	Pro	Asn	Leu	Ala	Leu	Phe	Ser	Ala	Ala
				50					55			60		
Phe	Ala	Phe	Ile	Val	Val	Lys	Asp	Ser	Ala	Gly	Asp	Ser	Asp	Val
				65					70			75		
Val	Val	Gln	Glu	Leu	Lys	Ser	Met	Val	Ala	Thr	Lys	Ile	Ala	Lys
				80					85			90		
Tyr	Ala	Val	Pro	Asp	Glu	Ile	Leu	Val	Val	Lys	Arg	Leu	Pro	Lys
				95					100			105		
Thr	Arg	Ser	Gly	Lys	Val	Met	Arg	Arg	Leu	Leu	Arg	Lys	Ile	Ile
				110					115			120		
Thr	Ser	Glu	Ala	Gln	Glu	Leu	Gly	Asp	Thr	Thr	Leu	Glu	Asp	
				125					130			135		
Pro	Ser	Ile	Ile	Ala	Glu	Ile	Leu	Ser	Val	Tyr	Gln	Lys	Cys	Lys
				140					145			150		
Asp	Lys	Gln	Ala	Ala	Ala	Ala	Lys							
				155										

<210> 5  
<211> 643  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2148623CD1

<400> 5

Met	Cys	Gly	Ile	Cys	Cys	Ser	Val	Asn	Phe	Ser	Ala	Glu	His	Phe
1				5					10			15		
Ser	Gln	Asp	Leu	Lys	Glu	Asp	Leu	Leu	Tyr	Asn	Leu	Lys	Gln	Arg
				20					25			30		
Gly	Pro	Asn	Ser	Ser	Lys	Gln	Leu	Leu	Lys	Ser	Asp	Val	Asn	Tyr
				35					40			45		
Gln	Cys	Leu	Phe	Ser	Ala	His	Val	Leu	His	Leu	Arg	Gly	Val	Leu
				50					55			60		
Thr	Thr	Gln	Pro	Val	Glu	Asp	Glu	Arg	Gly	Asn	Val	Phe	Leu	Trp
				65					70			75		
Asn	Gly	Glu	Ile	Phe	Ser	Gly	Ile	Lys	Val	Glu	Ala	Glu	Glu	Asn
				80					85			90		
Asp	Thr	Gln	Ile	Leu	Phe	Asn	Tyr	Leu	Ser	Ser	Cys	Lys	Asn	Glu
				95					100			105		
Ser	Glu	Ile	Leu	Ser	Leu	Phe	Ser	Glu	Val	Gln	Gly	Pro	Trp	Ser
				110					115			120		

Phe Ile Tyr Tyr Gin Ala Ser Ser His Tyr Leu Trp Phe Gly Arg  
 125 130 135  
 Asp Phe Phe Gly Arg Arg Ser Leu Leu Trp His Phe Ser Asn Leu  
 140 145 150  
 Gly Lys Ser Phe Cys Leu Ser Ser Val Gly Thr Gln Thr Ser Gly  
 155 160 165  
 Leu Ala Asn Gln Trp Gln Glu Val Pro Ala Ser Gly Leu Phe Arg  
 170 175 180  
 Ile Asp Leu Lys Ser Thr Val Ile Ser Arg Cys Ile Ile Leu Gln  
 185 190 195  
 Leu Tyr Pro Trp Lys Tyr Ile Ser Arg Glu Asn Ile Ile Glu Glu  
 200 205 210  
 Asn Val Asn Ser Leu Ser Gln Ile Ser Ala Asp Leu Pro Ala Phe  
 215 220 225  
 Val Ser Val Val Ala Asn Glu Ala Lys Leu Tyr Leu Glu Lys Pro  
 230 235 240  
 Val Val Pro Leu Asn Met Met Leu Pro Gln Ala Ala Leu Glu Thr  
 245 250 255  
 His Cys Ser Asn Ile Ser Asn Val Pro Pro Thr Arg Glu Ile Leu  
 260 265 270  
 Gln Val Phe Leu Thr Asp Val His Met Lys Glu Val Ile Gln Gln  
 275 280 285  
 Phe Ile Asp Val Leu Ser Val Ala Val Lys Lys Arg Val Leu Cys  
 290 295 300  
 Leu Pro Arg Asp Glu Asn Leu Thr Ala Asn Glu Val Leu Lys Thr  
 305 310 315  
 Cys Asp Arg Lys Ala Asn Val Ala Ile Leu Phe Ser Gly Gly Ile  
 320 325 330  
 Asp Ser Met Val Ile Ala Thr Leu Ala Asp Arg His Ile Pro Leu  
 335 340 345  
 Asp Glu Pro Ile Asp Leu Leu Asn Val Ala Phe Ile Ala Glu Glu  
 350 355 360  
 Lys Thr Met Pro Thr Thr Phe Asn Arg Glu Gly Asn Lys Gln Lys  
 365 370 375  
 Asn Lys Cys Glu Ile Pro Ser Glu Glu Phe Ser Lys Asp Val Ala  
 380 385 390  
 Ala Ala Ala Ala Asp Ser Pro Asn Lys His Val Ser Val Pro Asp  
 395 400 405  
 Arg Ile Thr Gly Arg Ala Gly Leu Lys Glu Leu Gln Ala Val Ser  
 410 415 420  
 Pro Ser Arg Ile Trp Asn Phe Val Glu Ile Asn Val Ser Met Glu  
 425 430 435  
 Glu Leu Gln Lys Leu Arg Arg Thr Arg Ile Cys His Leu Ile Arg  
 440 445 450  
 Pro Leu Asp Thr Val Leu Asp Asp Ser Ile Gly Cys Ala Val Trp  
 455 460 465  
 Phe Ala Ser Arg Gly Ile Gly Trp Leu Val Ala Gln Glu Gly Val  
 470 475 480  
 Lys Ser Tyr Gln Ser Asn Ala Lys Val Val Leu Thr Gly Ile Gly  
 485 490 495  
 Ala Asp Glu Gln Leu Ala Gly Tyr Ser Arg His Arg Val Arg Phe  
 500 505 510  
 Gln Ser His Gly Leu Glu Gly Leu Asn Lys Glu Ile Met Met Glu  
 515 520 525  
 Leu Gly Arg Ile Ser Ser Arg Asn Leu Gly Arg Asp Asp Arg Val  
 530 535 540  
 Ile Gly Asp His Gly Lys Glu Ala Arg Phe Pro Phe Leu Asp Glu  
 545 550 555  
 Asn Val Val Ser Phe Leu Asn Ser Leu Pro Ile Trp Glu Lys Ala  
 560 565 570  
 Asn Leu Thr Leu Pro Arg Gly Ile Gly Glu Lys Leu Leu Leu Arg  
 575 580 585  
 Leu Ala Ala Val Glu Leu Gly Leu Thr Ala Ser Ala Leu Leu Pro  
 590 595 600  
 Lys Arg Ala Met Gln Phe Gly Ser Arg Ile Ala Lys Met Glu Lys

605	610	615
Ile Asn Glu Lys Ala Ser Asp Lys Cys	Gly Arg Leu Gln Ile Met	
620	625	630
Ser Leu Glu Asn Leu Ser Ile Glu Lys Glu	Thr Lys Leu	
635	640	

<210> 6  
<211> 660  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2579405CD1

<400> 6

Met Asp Ile Leu Val Ser Glu Cys Ser Ala Arg Leu Leu Gln Gln		
1 5 10 15		
Glu Glu Glu Ile Lys Ser Leu Thr Ala Glu Ile Asp Arg Leu Lys		
20 25 30		
Asn Cys Gly Cys Leu Gly Ala Ser Pro Asn Leu Glu Gln Leu Gln		
35 40 45		
Glu Glu Asn Leu Lys Leu Lys Tyr Arg Leu Asn Ile Leu Arg Lys		
50 55 60		
Ser Leu Gln Ala Glu Arg Asn Lys Pro Thr Lys Asn Met Ile Asn		
65 70 75		
Ile Ile Ser Arg Leu Gln Glu Val Phe Gly His Ala Ile Lys Ala		
80 85 90		
Ala Tyr Pro Asp Leu Glu Asn Pro Pro Leu Leu Val Thr Pro Ser		
95 100 105		
Gln Gln Ala Lys Phe Gly Asp Tyr Gln Cys Asn Ser Ala Met Gly		
110 115 120		
Ile Ser Gln Met Leu Lys Thr Lys Glu Gln Lys Val Asn Pro Arg		
125 130 135		
Glu Ile Ala Glu Asn Ile Thr Lys His Leu Pro Asp Asn Glu Cys		
140 145 150		
Ile Glu Lys Val Glu Ile Ala Gly Pro Gly Phe Ile Asn Val His		
155 160 165		
Leu Arg Lys Asp Phe Val Ser Glu Gln Leu Thr Ser Leu Leu Val		
170 175 180		
Asn Gly Val Gln Leu Pro Ala Leu Gly Glu Asn Lys Lys Val Ile		
185 190 195		
Val Asp Phe Ser Ser Pro Asn Ile Ala Lys Glu Met His Val Gly		
200 205 210		
His Leu Arg Ser Thr Ile Ile Gly Glu Ser Ile Ser Arg Leu Phe		
215 220 225		
Glu Phe Ala Gly Tyr Asp Val Leu Arg Leu Asn His Val Gly Asp		
230 235 240		
Trp Gly Thr Gln Phe Gly Met Leu Ile Ala His Leu Gln Asp Lys		
245 250 255		
Phe Pro Asp Tyr Leu Thr Val Ser Pro Pro Ile Gly Asp Leu Gln		
260 265 270		
Val Phe Tyr Lys Glu Ser Lys Lys Arg Phe Asp Thr Glu Glu Glu		
275 280 285		
Phe Lys Lys Arg Ala Tyr Gln Cys Val Val Leu Leu Gln Gly Lys		
290 295 300		
Asn Pro Asp Ile Thr Lys Ala Trp Lys Leu Ile Cys Asp Val Ser		
305 310 315		
Arg Gln Glu Leu Asn Lys Ile Tyr Asp Ala Leu Asp Val Ser Leu		
320 325 330		
Ile Glu Arg Gly Glu Ser Phe Tyr Gln Asp Arg Met Asn Asp Ile		
335 340 345		
Val Lys Glu Phe Glu Asp Arg Gly Phe Val Gln Val Asp Asp Gly		
350 355 360		
Arg Lys Ile Val Phe Val Pro Gly Cys Ser Ile Pro Leu Thr Ile		
365 370 375		

Val	Lys	Ser	Asp	Gly	Gly	Tyr	Thr	Tyr	Asp	Thr	Ser	Asp	Leu	Ala
380						385							390	
Ala	Ile	Lys	Gln	Arg	Leu	Phe	Glu	Glu	Lys	Ala	Asp	Met	Ile	Ile
					395				400				405	
Tyr	Val	Val	Asp	Asn	Gly	Gln	Ser	Val	His	Phe	Gln	Thr	Ile	Phe
					410				415				420	
Ala	Ala	Ala	Gln	Met	Ile	Gly	Trp	Tyr	Asp	Pro	Lys	Val	Thr	Arg
				425					430				435	
Val	Phe	His	Ala	Gly	Phe	Gly	Val	Val	Leu	Gly	Asp	Lys	Lys	
				440					445				450	
Lys	Phe	Lys	Thr	Arg	Ser	Gly	Glu	Thr	Val	Arg	Leu	Met	Asp	Leu
				455					460				465	
Leu	Gly	Glu	Gly	Leu	Lys	Arg	Ser	Met	Asp	Lys	Leu	Lys	Glu	Lys
				470					475				480	
Glu	Arg	Asp	Lys	Val	Leu	Thr	Ala	Glu	Glu	Leu	Asn	Ala	Ala	Gln
				485					490				495	
Thr	Ser	Val	Ala	Tyr	Gly	Cys	Ile	Lys	Tyr	Ala	Asp	Leu	Ser	His
				500					505				510	
Asn	Arg	Leu	Asn	Asp	Tyr	Ile	Phe	Ser	Phe	Asp	Lys	Met	Leu	Asp
				515					520				525	
Asp	Arg	Gly	Asn	Thr	Ala	Ala	Tyr	Leu	Leu	Tyr	Ala	Phe	Thr	Arg
				530					535				540	
Ile	Arg	Ser	Ile	Ala	Arg	Leu	Ala	Asn	Ile	Asp	Glu	Glu	Met	Leu
				545					550				555	
Gln	Lys	Ala	Ala	Arg	Glu	Thr	Lys	Ile	Leu	Leu	Asp	His	Glu	Lys
				560					565				570	
Glu	Trp	Lys	Leu	Gly	Arg	Cys	Ile	Leu	Arg	Phe	Pro	Glu	Ile	Leu
				575					580				585	
Gln	Lys	Ile	Leu	Asp	Asp	Leu	Phe	Leu	His	Thr	Leu	Cys	Asp	Tyr
				590					595				600	
Ile	Tyr	Glu	Leu	Ala	Thr	Ala	Phe	Thr	Glu	Phe	Tyr	Asp	Ser	Cys
				605					610				615	
Tyr	Cys	Val	Glu	Lys	Asp	Arg	Gln	Thr	Gly	Lys	Ile	Leu	Lys	Val
				620					625				630	
Asn	Met	Trp	Arg	Met	Leu	Leu	Cys	Glu	Ala	Val	Ala	Ala	Val	Met
				635					640				645	
Ala	Lys	Gly	Phe	Asp	Ile	Leu	Gly	Ile	Lys	Pro	Val	Gln	Arg	Met
				650					655				660	

<210> 7  
<211> 725  
<212> PRT  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2662427CD1

Met	Ala	Ala	Ala	Ser	Ala	Val	Ser	Val	Leu	Leu	Val	Ala	Ala	Glu
1					5				10				15	
Arg	Asn	Arg	Trp	His	Arg	Leu	Pro	Ser	Leu	Leu	Leu	Pro	Pro	Arg
					20				25				30	
Thr	Trp	Val	Trp	Arg	Gln	Arg	Thr	Met	Lys	Tyr	Thr	Thr	Ala	Thr
					35				40				45	
Gly	Arg	Asn	Ile	Thr	Lys	Val	Leu	Ile	Ala	Asn	Arg	Gly	Glu	Ile
					50				55				60	
Ala	Cys	Arg	Val	Met	Arg	Thr	Ala	Lys	Lys	Leu	Gly	Val	Gln	Thr
					65				70				75	
Val	Ala	Val	Tyr	Ser	Glu	Ala	Asp	Arg	Asn	Ser	Met	His	Val	Asp
					80				85				90	
Met	Ala	Asp	Glu	Ala	Tyr	Ser	Ile	Gly	Pro	Ala	Pro	Ser	Gln	Gln
					95				100				105	
Ser	Tyr	Leu	Ser	Met	Glu	Lys	Ile	Ile	Gln	Val	Ala	Lys	Thr	Ser
					110				115				120	

Ala Ala Gin Ala Ile His Pro Gly Cys Arg Phe Leu Ser Glu Asn  
 125 130 135  
 Met Glu Phe Ala Glu Leu Cys Lys Gln Glu Gly Ile Ile Phe Ile  
 140 145 150  
 Gly Pro Pro Pro Ser Ala Ile Arg Asp Met Gly Ile Lys Ser Thr  
 155 160 165  
 Ser Lys Ser Ile Met Ala Ala Ala Gly Val Pro Val Val Glu Gly  
 170 175 180  
 Tyr His Gly Glu Asp Gln Ser Asp Gln Cys Leu Lys Glu His Ala  
 185 190 195  
 Arg Arg Ile Gly Tyr Pro Val Met Ile Lys Ala Val Arg Gly Gly  
 200 205 210  
 Gly Gly Lys Gly Met Arg Ile Val Arg Ser Glu Gln Glu Phe Gln  
 215 220 225  
 Glu Gln Leu Glu Ser Ala Arg Arg Glu Ala Lys Lys Ser Phe Asn  
 230 235 240  
 Asp Asp Ala Met Leu Ile Glu Lys Phe Val Asp Thr Pro Arg His  
 245 250 255  
 Val Glu Val Gln Val Phe Gly Asp His His Gly Asn Ala Val Tyr  
 260 265 270  
 Leu Phe Glu Arg Asp Cys Ser Val Gln Arg Arg His Gln Lys Ile  
 275 280 285  
 Ile Glu Glu Ala Pro Ala Pro Gly Ile Lys Ser Glu Val Arg Lys  
 290 295 300  
 Lys Leu Gly Glu Ala Ala Val Arg Ala Ala Lys Ala Val Asn Tyr  
 305 310 315  
 Val Gly Ala Gly Thr Val Glu Phe Ile Met Asp Ser Lys His Asn  
 320 325 330  
 Phe Cys Phe Met Glu Met Asn Thr Arg Leu Gln Val Glu His Pro  
 335 340 345  
 Val Thr Glu Met Ile Thr Gly Thr Asp Leu Val Glu Trp Gln Leu  
 350 355 360  
 Arg Ile Ala Ala Gly Glu Lys Ile Pro Leu Ser Gln Glu Glu Ile  
 365 370 375  
 Thr Leu Gln Gly His Ala Phe Glu Ala Arg Ile Tyr Ala Glu Asp  
 380 385 390  
 Pro Ser Asn Asn Phe Met Pro Val Ala Gly Pro Leu Val His Leu  
 395 400 405  
 Ser Thr Pro Arg Ala Asp Pro Ser Thr Arg Ile Glu Thr Gly Val  
 410 415 420  
 Arg Gln Gly Asp Glu Val Ser Val His Tyr Asp Pro Met Ile Ala  
 425 430 435  
 Lys Leu Val Val Trp Ala Ala Asp Arg Gln Ala Ala Leu Thr Lys  
 440 445 450  
 Leu Arg Tyr Ser Leu Arg Gln Tyr Asn Ile Val Gly Leu Pro Thr  
 455 460 465  
 Asn Ile Asp Phe Leu Leu Asn Leu Ser Gly His Pro Glu Phe Glu  
 470 475 480  
 Ala Gly Asn Val His Thr Asp Phe Ile Pro Gln His His Lys Gln  
 485 490 495  
 Leu Leu Leu Ser Arg Lys Ala Ala Ala Lys Glu Ser Leu Cys Gln  
 500 505 510  
 Ala Ala Leu Gly Leu Ile Leu Lys Glu Lys Ala Met Thr Asp Thr  
 515 520 525  
 Phe Thr Leu Gln Ala His Asp Gln Phe Ser Pro Phe Ser Ser Ser  
 530 535 540  
 Ser Gly Arg Arg Leu Asn Ile Ser Tyr Thr Arg Asn Met Thr Leu  
 545 550 555  
 Lys Asp Gly Lys Asn Asn Val Ala Ile Ala Val Thr Tyr Asn His  
 560 565 570  
 Asp Gly Ser Tyr Ser Met Gln Ile Glu Asp Lys Thr Phe Gln Val  
 575 580 585  
 Leu Gly Asn Leu Tyr Ser Glu Gly Asp Cys Thr Tyr Leu Lys Cys  
 590 595 600  
 Ser Val Asn Gly Val Ala Ser Lys Ala Lys Leu Ile Ile Leu Glu

605	610	615
Asn Thr Ile Tyr Leu Phe Ser Lys Glu	Gly Ser Ile Glu Ile	Asp
620	625	630
Ile Pro Val Pro Lys Tyr Leu Ser Ser	Val Ser Ser Gln Glu	Thr
635	640	645
Gln Gly Gly Pro Leu Ala Pro Met Thr	Gly Thr Ile Glu Lys	Val
650	655	660
Phe Val Lys Ala Gly Asp Lys Val Lys	Ala Gly Asp Ser Leu	Met
665	670	675
Val Met Ile Ala Met Lys Met Glu His	Thr Ile Lys Ser Pro	Lys
680	685	690
Asp Gly Thr Val Lys Lys Val Phe Tyr	Arg Glu Gly Ala Gln	Ala
695	700	705
Asn Arg His Thr Pro Leu Val Glu Phe	Glu Glu Glu Ser Asp	
710	715	720
Lys Arg Glu Ser Glu		
725		

&lt;210&gt; 8

&lt;211&gt; 644

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2844928CD1

&lt;400&gt; 8

Met Ala Val Tyr Val Gly Met Leu Arg	Leu Gly Arg Leu Cys Ala		
1	5	10	15
Gly Ser Ser Gly Val Leu Gly Ala Arg	Ala Ala Leu Ser Arg Ser		
20		25	30
Trp Gln Glu Ala Arg Leu Gln Gly Val	Arg Phe Leu Ser Ser Arg		
35		40	45
Glu Val Asp Arg Met Val Ser Thr Pro	Ile Gly Gly Leu Ser Tyr		
50		55	60
Val Gln Gly Cys Thr Lys Lys His	Leu Asn Ser Lys Thr Val Gly		
65		70	75
Gln Cys Leu Glu Thr Thr Ala Gln Arg	Val Pro Glu Arg Glu Ala		
80		85	90
Leu Val Val Leu His Glu Asp Val Arg	Leu Thr Phe Ala Gln Leu		
95		100	105
Lys Glu Glu Val Asp Lys Ala Ala Ser	Gly Leu Leu Ser Ile Gly		
110		115	120
Leu Cys Lys Gly Asp Arg Leu Gly Met	Trp Gly Pro Asn Ser Tyr		
125		130	135
Ala Trp Val Leu Met Gln Leu Ala Thr	Ala Gln Ala Gly Ile Ile		
140		145	150
Leu Val Ser Val Asn Pro Ala Tyr Gln	Ala Met Glu Leu Glu Tyr		
155		160	165
Val Leu Lys Lys Val Gly Cys Lys Ala	Leu Val Phe Pro Lys Gln		
170		175	180
Phe Lys Thr Gln Gln Tyr Tyr Asn Val	Leu Lys Gln Ile Cys Pro		
185		190	195
Glu Val Glu Asn Ala Gln Pro Gly Ala	Leu Lys Ser Gln Arg Leu		
200		205	210
Pro Asp Leu Thr Thr Val Ile Ser Val	Asp Ala Pro Leu Pro Gly		
215		220	225
Thr Leu Leu Leu Asp Glu Val Val Ala	Ala Gly Ser Thr Arg Gln		
230		235	240
His Leu Asp Gln Leu Gln Tyr Asn Gln	Gln Phe Leu Ser Cys His		
245		250	255
Asp Pro Ile Asn Ile Gln Phe Thr Ser	Gly Thr Thr Gly Ser Pro		
260		265	270
Lys Gly Ala Thr Leu Ser His Tyr Asn	Ile Val Asn Asn Ser Asn		
275		280	285

Ile Leu Gly Glu Arg Leu Lys Leu His Glu Lys Thr Pro Glu Gln  
 290 295 300  
 Leu Arg Met Ile Leu Pro Asn Pro Leu Tyr His Cys Leu Gly Ser  
 305 310 315  
 Val Ala Gly Thr Met Met Cys Leu Met Tyr Gly Ala Thr Leu Ile  
 320 325 330  
 Leu Ala Ser Pro Ile Phe Asn Gly Lys Lys Ala Leu Glu Ala Ile  
 335 340 345  
 Ser Arg Glu Arg Gly Thr Phe Leu Tyr Gly Thr Pro Thr Met Phe  
 350 355 360  
 Val Asp Ile Leu Asn Gln Pro Asp Phe Ser Ser Tyr Asp Ile Ser  
 365 370 375  
 Thr Met Cys Gly Gly Val Ile Ala Gly Ser Pro Ala Pro Pro Glu  
 380 385 390  
 Leu Ile Arg Ala Ile Ile Asn Lys Ile Asn Met Lys Asp Leu Val  
 395 400 405  
 Val Ala Tyr Gly Thr Thr Glu Asn Ser Pro Val Thr Phe Ala His  
 410 415 420  
 Phe Pro Glu Asp Thr Val Glu Gln Lys Ala Glu Ser Val Gly Arg  
 425 430 435  
 Ile Met Pro His Thr Glu Ala Arg Ile Met Asn Met Glu Ala Gly  
 440 445 450  
 Thr Leu Ala Lys Leu Asn Thr Pro Gly Glu Leu Cys Ile Arg Gly  
 455 460 465  
 Tyr Cys Val Met Leu Gly Tyr Trp Gly Glu Pro Gln Lys Thr Glu  
 470 475 480  
 Glu Ala Val Asp Gln Asp Lys Trp Tyr Trp Thr Gly Asp Val Ala  
 485 490 495  
 Thr Met Asn Glu Gln Gly Phe Cys Lys Ile Val Gly Arg Ser Lys  
 500 505 510  
 Asp Met Ile Ile Arg Gly Gly Glu Asn Ile Tyr Pro Ala Glu Leu  
 515 520 525  
 Glu Asp Phe Phe His Thr His Pro Lys Val Gln Glu Val Gln Val  
 530 535 540  
 Arg His Leu Ala Gln Val Ser Pro Gln Lys Gln Glu Thr His Met  
 545 550 555  
 Asn Thr Val Met Ser Asp Ile Phe Leu Trp Pro Trp Asn Val Val  
 560 565 570  
 Gly Val Lys Asp Asp Arg Met Gly Glu Glu Ile Cys Ala Cys Ile  
 575 580 585  
 Arg Leu Lys Asp Gly Glu Glu Thr Thr Val Glu Glu Ile Lys Ala  
 590 595 600  
 Phe Cys Lys Gly Lys Ile Ser His Phe Lys Ile Pro Lys Tyr Ile  
 605 610 615  
 Val Phe Val Thr Asn Tyr Pro Leu Thr Ile Ser Gly Lys Ile Gln  
 620 625 630  
 Lys Phe Lys Leu Arg Glu Gln Met Glu Arg His Leu Asn Leu  
 635 640

<210> 9  
 <211> 504  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3231586CD1

<400> 9  
 Met Phe Pro Arg Glu Lys Thr Trp Asn Ile Ser Phe Ala Gly Cys  
 1 5 10 15  
 Gly Phe Leu Gly Val Tyr Tyr Val Gly Val Ala Ser Cys Leu Arg  
 20 25 30  
 Glu His Ala Pro Phe Leu Val Ala Asn Ala Thr His Ile Tyr Gly  
 35 40 45  
 Ala Ser Ala Gly Ala Leu Thr Ala Thr Ala Leu Val Thr Gly Val

Cys	Leu	Gly	Glu	Ala	Gly	Ala	Lys	Phe	Ile	Glu	Val	Ser	Lys	Glu
50														60
65														75
Ala	Arg	Lys	Arg	Phe	Leu	Gly	Pro	Leu	His	Pro	Ser	Phe	Asn	Leu
80														90
Val	Lys	Ile	Ile	Arg	Ser	Phe	Leu	Leu	Lys	Val	Leu	Pro	Ala	Asp
95														105
Ser	His	Glu	His	Ala	Ser	Gly	Arg	Leu	Gly	Ile	Ser	Leu	Thr	Arg
110														120
Val	Ser	Asp	Gly	Glu	Asn	Val	Ile	Ile	Ser	His	Phe	Asn	Ser	Lys
125														135
Asp	Glu	Leu	Ile	Gln	Ala	Asn	Val	Cys	Ser	Gly	Phe	Ile	Pro	Val
140														150
Tyr	Cys	Gly	Leu	Ile	Pro	Pro	Ser	Leu	Gln	Gly	Val	Arg	Tyr	Val
155														165
Asp	Gly	Gly	Ile	Ser	Asp	Asn	Leu	Pro	Leu	Tyr	Glu	Leu	Lys	Asn
170														180
Thr	Ile	Thr	Val	Ser	Pro	Phe	Ser	Gly	Glu	Ser	Asp	Ile	Cys	Pro
185														195
Gln	Asp	Ser	Ser	Thr	Asn	Ile	His	Glu	Leu	Arg	Val	Thr	Asn	Thr
200														210
Ser	Ile	Gln	Phe	Asn	Leu	Arg	Asn	Leu	Tyr	Arg	Leu	Ser	Lys	Ala
215														225
Leu	Phe	Pro	Pro	Glu	Pro	Leu	Val	Leu	Arg	Glu	Met	Cys	Lys	Gln
230														240
Gly	Tyr	Arg	Asp	Gly	Leu	Arg	Phe	Leu	Gln	Arg	Asn	Gly	Leu	Leu
245														255
Asn	Arg	Pro	Asn	Pro	Leu	Leu	Ala	Leu	Pro	Pro	Ala	Arg	Pro	His
260														270
Gly	Pro	Glu	Asp	Lys	Asp	Gln	Ala	Val	Glu	Ser	Ala	Gln	Ala	Glu
275														285
Asp	Tyr	Ser	Gln	Leu	Pro	Gly	Glu	Asp	His	Ile	Leu	Glu	His	Leu
290														300
Pro	Ala	Arg	Leu	Asn	Glu	Ala	Leu	Leu	Glu	Ala	Cys	Val	Glu	Pro
305														315
Thr	Asp	Leu	Leu	Thr	Thr	Leu	Ser	Asn	Met	Leu	Pro	Val	Arg	Leu
320														330
Ala	Thr	Ala	Met	Met	Val	Pro	Tyr	Thr	Leu	Pro	Leu	Glu	Ser	Ala
335														345
Leu	Ser	Phe	Thr	Ile	Arg	Leu	Leu	Glu	Trp	Leu	Pro	Asp	Val	Pro
350														360
Glu	Asp	Ile	Arg	Trp	Met	Lys	Glu	Gln	Thr	Gly	Ser	Ile	Cys	Gln
365														375
Tyr	Leu	Val	Met	Arg	Ala	Lys	Arg	Lys	Leu	Gly	Arg	His	Leu	Pro
380														390
Ser	Arg	Leu	Pro	Glu	Gln	Val	Glu	Leu	Arg	Arg	Val	Gln	Ser	Leu
395														405
Pro	Ser	Val	Pro	Leu	Ser	Cys	Ala	Ala	Tyr	Arg	Glu	Ala	Leu	Pro
410														420
Gly	Trp	Met	Arg	Asn	Asn	Leu	Ser	Leu	Gly	Asp	Ala	Leu	Ala	Lys
425														435
Trp	Glu	Glu	Cys	Gln	Arg	Gln	Leu	Leu	Leu	Gly	Leu	Phe	Cys	Thr
440														450
Asn	Val	Ala	Phe	Pro	Pro	Glu	Ala	Leu	Arg	Met	Arg	Ala	Pro	Ala
455														465
Asp	Pro	Ala	Pro	Ala	Pro	Ala	Asp	Pro	Ala	Ser	Pro	Gln	His	Gln
470														480
Leu	Ala	Gly	Pro	Ala	Pro	Leu	Leu	Ser	Thr	Pro	Ala	Pro	Glu	Ala
485														495
Arg	Pro	Val	Ile	Gly	Ala	Leu	Gly	Leu						
500														

&lt;210&gt; 10

&lt;211&gt; 489

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3580770CD1

&lt;400&gt; 10

Met Lys Tyr Ile Leu Val Thr Gly Gly Val Ile Ser Gly Ile Gly  
 1 5 10 15  
 Lys Gly Ile Ile Ala Ser Ser Ile Gly Thr Ile Leu Lys Ser Cys  
 20 25 30  
 Gly Leu Arg Val Thr Ala Ile Lys Ile Asp Pro Tyr Ile Asn Ile  
 35 40 45  
 Asp Ala Gly Thr Phe Ser Pro Tyr Glu His Gly Glu Val Phe Val  
 50 55 60  
 Leu Asn Asp Gly Gly Glu Val Asp Leu Asp Leu Gly Asp Tyr Glu  
 65 70 75  
 Arg Phe Leu Asp Ile Asn Leu Tyr Lys Asp Thr Ile Val Thr Thr  
 80 85 90  
 Gly Lys Ile Tyr Gln His Val Ile Asn Lys Glu Arg Arg Gly Asp  
 95 100 105  
 Tyr Leu Gly Lys Thr Val Gln Val Val Pro His Ile Thr Asp Ala  
 110 115 120  
 Val Gln Glu Trp Val Met Asn Gln Ala Lys Val Pro Val Asp Gly  
 125 130 135  
 Asn Lys Glu Glu Pro Gln Ile Cys Val Ile Glu Leu Gly Gly Thr  
 140 145 150  
 Ile Gly Asp Ile Glu Gly Met Pro Phe Val Glu Ala Phe Arg Gln  
 155 160 165  
 Phe Gln Phe Lys Ala Lys Arg Glu Asn Phe Cys Asn Ile His Val  
 170 175 180  
 Ser Leu Val Pro Gln Leu Ser Ala Thr Gly Glu Gln Lys Thr Lys  
 185 190 195  
 Pro Thr Gln Asn Ser Val Arg Ala Leu Arg Gly Leu Gly Leu Ser  
 200 205 210  
 Pro Asp Leu Ile Val Cys Arg Ser Ser Thr Pro Ile Glu Met Ala  
 215 220 225  
 Val Lys Glu Lys Ile Ser Met Phe Cys His Val Asn Pro Glu Gln  
 230 235 240  
 Val Ile Cys Ile His Asp Val Ser Ser Thr Tyr Arg Val Pro Val  
 245 250 255  
 Leu Leu Glu Glu Gln Ser Ile Val Lys Tyr Phe Lys Glu Arg Leu  
 260 265 270  
 His Leu Pro Ile Gly Asp Ser Ala Ser Asn Leu Leu Phe Lys Trp  
 275 280 285  
 Arg Asn Met Ala Asp Arg Tyr Glu Arg Leu Gln Lys Ile Cys Ser  
 290 295 300  
 Ile Ala Leu Val Gly Lys Tyr Thr Lys Leu Arg Asp Cys Tyr Ala  
 305 310 315  
 Ser Val Phe Lys Ala Leu Glu His Ser Ala Leu Ala Ile Asn His  
 320 325 330  
 Lys Leu Asn Leu Met Val Ile Asp Met Pro Glu His Asn Pro Gly  
 335 340 345  
 Asn Leu Gly Gly Thr Met Arg Leu Gly Ile Arg Arg Thr Val Phe  
 350 355 360  
 Lys Thr Glu Asn Ser Ile Leu Arg Lys Leu Tyr Gly Asp Val Pro  
 365 370 375  
 Phe Ile Glu Glu Arg His Arg His Arg Phe Glu Val Asn Pro Asn  
 380 385 390  
 Leu Ile Lys Gln Phe Glu Gln Asn Asp Leu Ser Phe Val Gly Gln  
 395 400 405  
 Asp Val Asp Gly Asp Arg Met Glu Ile Ile Glu Leu Ala Asn His  
 410 415 420  
 Pro Tyr Phe Val Gly Val Gln Phe His Pro Glu Phe Ser Ser Arg  
 425 430 435  
 Pro Met Lys Pro Ser Pro Pro Tyr Leu Gly Leu Leu Leu Ala Ala  
 440 445 450

Thr Gly Asn Leu Asn Ala Tyr Leu Gln Gln Gly Cys Lys Leu Ser  
 455 460 465  
 Ser Ser Asp Arg Tyr Ser Asp Ala Ser Asp Asp Ser Phe Ser Glu  
 470 475 480  
 Pro Arg Ile Ala Glu Leu Glu Ile Ser  
 485

<210> 11  
 <211> 258  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3778612CD1

<400> 11  
 Met Glu Arg Gln Lys Arg Lys Ala Asp Ile Glu Lys Gly Leu Gln  
 1 5 10 15  
 Phe Ile Gln Ser Thr Leu Pro Leu Lys Gln Glu Glu Tyr Glu Ala  
 20 25 30  
 Phe Leu Leu Lys Leu Val Gln Asn Leu Phe Ala Glu Gly Asn Asp  
 35 40 45  
 Leu Phe Arg Glu Lys Asp Tyr Lys Gln Ala Leu Val Gln Tyr Met  
 50 55 60  
 Glu Gly Leu Asn Val Ala Asp Tyr Ala Ala Ser Asp Gln Val Ala  
 65 70 75  
 Leu Pro Arg Glu Leu Leu Cys Lys Leu His Val Asn Arg Ala Ala  
 80 85 90  
 Cys Tyr Phe Thr Met Gly Leu Tyr Glu Lys Ala Leu Glu Asp Ser  
 95 100 105  
 Glu Lys Ala Leu Gly Pro Asp Ser Glu Ser Ile Arg Ala Leu Phe  
 110 115 120  
 Arg Lys Ala Arg Ala Leu Asn Glu Leu Gly Arg His Lys Glu Ala  
 125 130 135  
 Tyr Glu Cys Ser Ser Arg Cys Ser Leu Ala Leu Pro His Asp Glu  
 140 145 150  
 Ser Val Thr Gln Leu Gly Gln Gly Pro Leu Gly Ser Gly Ala Ser  
 155 160 165  
 Trp Pro Gly Gln Ser Trp Ser Pro His Arg Val Arg Lys Arg Glu  
 170 175 180  
 Trp Glu Ala Glu Cys Asp Gly Glu Glu Gly Gln Glu Asp Pro Phe  
 185 190 195  
 Asn Asp Glu Gly Asn Tyr Phe Ser Cys Glu Pro Ser Arg Ala Pro  
 200 205 210  
 Gly Trp Glu Ala Gln Arg Thr Glu Ser Gly Thr Cys Val Pro Pro  
 215 220 225  
 Gly Arg Gln Gly Gln Asp Gly Met Ala Ser Met Gly Ala Gly Trp  
 230 235 240  
 Val Gly Arg Asp Ala Ala Phe Leu Ser Trp Ala Val Ile Asn Leu  
 245 250 255  
 Met Val Leu

<210> 12  
 <211> 555  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 4574912CD1

<220>  
 <221> unsure  
 <222> 63-65  
 <223> unknown or other

&lt;400&gt; 12

Met	Glu	Gly	Ala	Val	Leu	Glu	Ala	Gly	Gly	Ala	Arg	Cys	Phe	Cys
1			5			10							15	
Arg	Phe	Gly	Cys	Glu	Leu	Ser	Lys	Tyr	Glu	Asn	Pro	Gly	Tyr	Ser
			20			25							30	
Ser	Pro	Arg	Ser	Asp	Tyr	Phe	Lys	Asn	Tyr	Met	Ile	Ile	Ile	Thr
			35			40							45	
Gln	Asn	Arg	Met	Ser	Phe	Leu	Ala	Asn	Met	Phe	His	Thr	Met	Asp
			50				55						60	
Cys	Val	Xaa	Xaa	Xaa	Arg	Tyr	Ser	Cys	Gly	Pro	Thr	Val	Tyr	Asp
			65			70							75	
His	Ala	His	Leu	Gly	His	Ala	Cys	Ser	Tyr	Val	Arg	Phe	Asp	Ile
			80			85							90	
Ile	Arg	Arg	Ile	Leu	Thr	Lys	Val	Phe	Gly	Cys	Ser	Ile	Val	Met
			95			100							105	
Val	Met	Gly	Ile	Thr	Asp	Val	Asp	Asp	Lys	Ile	Ile	Lys	Arg	Ala
			110			115							120	
Asn	Glu	Met	Asn	Ile	Ser	Pro	Ala	Ser	Leu	Ala	Ser	Leu	Tyr	Glu
			125			130							135	
Glu	Asp	Phe	Lys	Gln	Asp	Met	Ala	Ala	Leu	Lys	Val	Leu	Pro	Pro
			140			145							150	
Thr	Val	Tyr	Leu	Arg	Val	Thr	Glu	Asn	Ile	Pro	Gln	Ile	Ile	Ser
			155			160							165	
Phe	Ile	Glu	Gly	Ile	Ile	Ala	Arg	Gly	Asn	Ala	Tyr	Ser	Thr	Ala
			170			175							180	
Lys	Gly	Asn	Val	Tyr	Phe	Asp	Leu	Lys	Ser	Arg	Gly	Asp	Lys	Tyr
			185			190							195	
Gly	Lys	Leu	Val	Gly	Val	Val	Pro	Gly	Pro	Val	Gly	Glu	Pro	Ala
			200			205							210	
Asp	Ser	Asp	Lys	Arg	His	Ala	Ser	Asp	Phe	Ala	Leu	Trp	Lys	Ala
			215			220							225	
Ala	Lys	Pro	Gln	Glu	Val	Phe	Trp	Ala	Ser	Pro	Trp	Gly	Pro	Gly
			230			235							240	
Arg	Pro	Gly	Trp	His	Ile	Glu	Cys	Ser	Ala	Ile	Ala	Ser	Met	Val
			245			250							255	
Phe	Gly	Ser	Gln	Leu	Asp	Ile	His	Ser	Gly	Gly	Ile	Asp	Leu	Ala
			260			265							270	
Phe	Pro	His	His	Glu	Asn	Glu	Ile	Ala	Gln	Cys	Glu	Val	Phe	His
			275			280							285	
Gln	Cys	Glu	Gln	Trp	Gly	Asn	Tyr	Phe	Leu	His	Ser	Gly	His	Leu
			290			295							300	
His	Ala	Lys	Gly	Lys	Glu	Glu	Lys	Met	Ser	Lys	Ser	Leu	Lys	Asn
			305			310							315	
Tyr	Ile	Thr	Ile	Lys	Asp	Phe	Leu	Lys	Thr	Phe	Ser	Pro	Asp	Val
			320			325							330	
Phe	Arg	Phe	Phe	Cys	Leu	Arg	Ser	Ser	Tyr	Arg	Ser	Ala	Ile	Asp
			335			340							345	
Tyr	Ser	Asp	Ser	Ala	Met	Leu	Gln	Ala	Gln	Gln	Leu	Leu	Leu	Gly
			350			355							360	
Leu	Gly	Ser	Phe	Leu	Glu	Asp	Ala	Arg	Ala	Tyr	Met	Lys	Gly	Gln
			365			370							375	
Leu	Ala	Cys	Gly	Ser	Val	Arg	Glu	Ala	Met	Leu	Trp	Glu	Arg	Leu
			380			385							390	
Ser	Ser	Thr	Lys	Arg	Ala	Val	Lys	Ala	Ala	Leu	Ala	Asp	Asp	Phe
			395			400							405	
Asp	Thr	Pro	Arg	Val	Val	Asp	Ala	Ile	Leu	Gly	Leu	Ala	His	His
			410			415							420	
Gly	Asn	Gly	Gln	Leu	Arg	Ala	Ser	Leu	Lys	Glu	Pro	Glu	Gly	Pro
			425			430							435	
Arg	Ser	Pro	Ala	Val	Phe	Gly	Ala	Ile	Ile	Ser	Tyr	Phe	Glu	Gln
			440			445							450	
Phe	Phe	Glu	Thr	Val	Gly	Ile	Ser	Leu	Ala	Asn	Gln	Gln	Tyr	Val
			455			460							465	
Ser	Gly	Asp	Gly	Ser	Glu	Ala	Thr	Leu	His	Gly	Val	Val	Asp	Glu
			470			475							480	

Leu	Val	Arg	Phe	Arg	Gln	Lys	Val	Arg	Gln	Phe	Ala	Leu	Ala	Met
485							490					495		
Pro	Glu	Ala	Thr	Gly	Asp	Ala	Arg	Arg	Gln	Gln	Leu	Leu	Glu	Arg
500							505					510		
Gln	Pro	Leu	Leu	Glu	Ala	Cys	Asp	Thr	Leu	Arg	Arg	Gly	Leu	Thr
515							520					525		
Ala	His	Gly	Ile	Asn	Ile	Lys	Asp	Arg	Ser	Ser	Thr	Thr	Ser	Thr
530							535					540		
Trp	Glu	Leu	Leu	Asp	Gln	Arg	Thr	Lys	Asp	Gln	Lys	Ser	Ala	Gly
545							550					555		

<210> 13  
 <211> 463  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 5630806CD1

<400> 13

Met	Ala	Ala	Ser	Met	Phe	Tyr	Gly	Arg	Leu	Val	Ala	Val	Ala	Thr
1				5					10					15
Leu	Arg	Asn	His	Arg	Pro	Arg	Thr	Ala	Gln	Arg	Ala	Ala	Gln	
					20				25					30
Val	Leu	Gly	Ser	Ser	Gly	Leu	Phe	Asn	Asn	His	Gly	Leu	Gln	Val
					35				40					45
Gln	Gln	Gln	Gln	Arg	Asn	Leu	Ser	Leu	His	Glu	Tyr	Met	Ser	
				50				55					60	
Met	Glu	Leu	Leu	Gln	Glu	Ala	Gly	Val	Ser	Val	Pro	Lys	Gly	Tyr
				65				70					75	
Val	Ala	Lys	Ser	Pro	Asp	Glu	Ala	Tyr	Ala	Ile	Ala	Lys	Lys	Leu
				80				85					90	
Gly	Ser	Lys	Asp	Val	Val	Ile	Lys	Ala	Gln	Val	Leu	Ala	Gly	Gly
				95				100					105	
Arg	Gly	Lys	Gly	Thr	Phe	Glu	Ser	Gly	Leu	Lys	Gly	Gly	Val	Lys
				110				115					120	
Ile	Val	Phe	Ser	Pro	Glu	Glu	Ala	Lys	Ala	Val	Ser	Ser	Gln	Met
				125				130					135	
Ile	Gly	Lys	Lys	Leu	Phe	Thr	Lys	Gln	Thr	Gly	Glu	Lys	Gly	Arg
				140				145					150	
Ile	Cys	Asn	Gln	Val	Leu	Val	Cys	Glu	Arg	Lys	Tyr	Pro	Arg	Arg
				155				160					165	
Glu	Tyr	Tyr	Phe	Ala	Ile	Thr	Met	Glu	Arg	Ser	Phe	Gln	Gly	Pro
				170				175					180	
Val	Leu	Ile	Gly	Ser	Ser	His	Gly	Gly	Val	Asn	Ile	Glu	Asp	Val
				185				190					195	
Ala	Ala	Glu	Thr	Pro	Glu	Ala	Ile	Ile	Lys	Glu	Pro	Ile	Asp	Ile
				200				205					210	
Glu	Glu	Gly	Ile	Lys	Lys	Glu	Gln	Ala	Leu	Gln	Leu	Ala	Gln	Lys
				215				220					225	
Met	Gly	Phe	Pro	Pro	Asn	Ile	Val	Glu	Ser	Ala	Ala	Glu	Asn	Met
				230				235					240	
Val	Lys	Leu	Tyr	Ser	Leu	Phe	Leu	Lys	Tyr	Asp	Ala	Thr	Met	Ile
				245				250					255	
Glu	Ile	Asn	Pro	Met	Val	Glu	Asp	Ser	Asp	Gly	Ala	Val	Leu	Cys
				260				265					270	
Met	Asp	Ala	Lys	Ile	Asn	Phe	Asp	Ser	Asn	Ser	Ala	Tyr	Arg	Gln
				275				280					285	
Lys	Lys	Ile	Phe	Asp	Leu	Gln	Asp	Trp	Thr	Gln	Glu	Asp	Glu	Arg
				290				295					300	
Asp	Lys	Asp	Ala	Ala	Lys	Ala	Asn	Leu	Asn	Tyr	Ile	Gly	Leu	Asp
				305				310					315	
Gly	Asn	Ile	Gly	Cys	Leu	Val	Asn	Gly	Ala	Gly	Leu	Ala	Met	Ala
				320				325					330	

Thr Met Asp Ile Ile Lys Leu His Gly Gly Thr Pro Ala Asn Phe  
 335 340 345  
 Leu Asp Val Gly Gly Ala Thr Val His Gln Val Thr Glu Ala  
 350 355 360  
 Phe Lys Leu Ile Thr Ser Asp Lys Lys Val Leu Ala Ile Leu Val  
 365 370 375  
 Asn Ile Phe Gly Gly Ile Met Arg Cys Asp Val Ile Ala Gln Gly  
 380 385 390  
 Ile Val Met Ala Val Lys Asp Leu Glu Ile Lys Ile Pro Val Val  
 395 400 405  
 Val Arg Leu Gln Gly Thr Arg Val Asp Asp Ala Lys Ala Leu Ile  
 410 415 420  
 Ala Asp Ser Gly Leu Lys Ile Leu Ala Cys Asp Asp Leu Asp Glu  
 425 430 435  
 Ala Ala Arg Met Val Val Lys Leu Ser Glu Ile Val Thr Leu Ala  
 440 445 450  
 Lys Gln Ala His Val Asp Val Lys Phe Gln Leu Pro Ile  
 455 460

&lt;210&gt; 14

&lt;211&gt; 399

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5854855CD1

&lt;400&gt; 14

Met Tyr Phe Gly Ala Val Ser Trp Leu Cys Gly Pro Arg Ala Pro  
 1 5 10 15  
 Asp Glu Val Ser Arg Arg Pro Asp Pro Arg Lys Gly Gln Leu Gly  
 20 25 30  
 Val Ala Phe Val Leu Leu Pro Pro His Ser Glu Gly Ala Arg Val  
 35 40 45  
 Phe Gly Ala Leu Gly Pro Ile Gly Pro Ser Ser Pro Gly Leu Thr  
 50 55 60  
 Leu Gly Gly Leu Ala Val Ser Glu His Arg Leu Ser Asn Lys Leu  
 65 70 75  
 Leu Ala Trp Ser Gly Val Leu Glu Trp Gln Glu Lys Arg Arg Pro  
 80 85 90  
 Tyr Ser Asp Ser Thr Ala Lys Leu Lys Arg Thr Leu Pro Cys Gln  
 95 100 105  
 Ala Tyr Val Asn Gln Gly Glu Asn Leu Glu Thr Asp Gln Trp Pro  
 110 115 120  
 Gln Lys Leu Ile Met Gln Leu Ile Pro Gln Gln Leu Leu Thr Thr  
 125 130 135  
 Leu Gly Pro Leu Phe Arg Asn Ser Gln Leu Ala Gln Phe His Phe  
 140 145 150  
 Thr Asn Arg Asp Cys Asp Ser Leu Lys Gly Leu Cys Arg Ile Met  
 155 160 165  
 Gly Asn Gly Phe Ala Gly Cys Met Leu Phe Pro His Ile Ser Pro  
 170 175 180  
 Cys Glu Val Arg Val Leu Met Leu Leu Tyr Ser Ser Lys Lys Lys  
 185 190 195  
 Ile Phe Met Gly Leu Ile Pro Tyr Asp Gln Ser Gly Phe Val Ser  
 200 205 210  
 Ala Ile Arg Gln Val Ile Thr Thr Arg Lys Gln Ala Val Gly Pro  
 215 220 225  
 Gly Gly Val Asn Ser Gly Pro Val Gln Ile Val Asn Asn Lys Phe  
 230 235 240  
 Leu Ala Trp Ser Gly Val Met Glu Trp Gln Glu Pro Arg Pro Glu  
 245 250 255  
 Pro Asn Ser Arg Ser Lys Arg Trp Leu Pro Ser His Val Tyr Val  
 260 265 270  
 Asn Gln Gly Glu Ile Leu Arg Thr Glu Gln Trp Pro Arg Lys Leu

	275	280	285											
Tyr	Met	Gln	Leu	Ile	Pro	Gln	Gln	Leu	Leu	Thr	Thr	Leu	Val	Pro
290									295					300
Leu	Phe	Arg	Asn	Ser	Arg	Leu	Val	Gln	Phe	His	Phe	Thr	Lys	Asp
305									310					315
Leu	Glu	Thr	Leu	Lys	Ser	Leu	Cys	Arg	Ile	Met	Asp	Asn	Gly	Phe
320									325					330
Ala	Gly	Cys	Val	His	Phe	Ser	Tyr	Lys	Ala	Ser	Cys	Glu	Ile	Arg
335									340					345
Val	Leu	Met	Leu	Leu	Tyr	Ser	Ser	Glu	Lys	Lys	Ile	Phe	Ile	Gly
350									355					360
Leu	Ile	Pro	His	Asp	Gln	Gly	Asn	Phe	Val	Asn	Gly	Ile	Arg	Arg
365									370					375
Val	Ile	Ala	Asn	Gln	Gln	Gln	Val	Leu	Gln	Arg	Asn	Leu	Glu	Gln
380									385					390
Glu	Gln	Gln	Gln	Arg	Gly	Met	Gly	Gly						
				395										

&lt;210&gt; 15

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 5993973CD1

&lt;400&gt; 15

Met	Val	Ser	Gly	Cys	Gln	Thr	Arg	Ser	Ile	Leu	Glu	Tyr	Leu	Arg
1									5	10				15
Val	Gly	Gly	Arg	Gly	Gly	Gly	Lys	Gly	Gly	Arg	Ala	Glu	Gly	
									20	25				30
Ser	Glu	Lys	Glu	Glu	Ser	Arg	Arg	Lys	Arg	Arg	Glu	Arg	Lys	Gln
									35	40				45
Arg	Arg	Glu	Gly	Gly	Asp	Gly	Glu	Glu	Gln	Asp	Val	Gly	Asp	Ala
									50	55				60
Gly	Arg	Leu	Leu	Leu	Arg	Val	Leu	His	Val	Ser	Glu	Asn	Pro	Val
									65	70				75
Pro	Leu	Thr	Val	Arg	Val	Ser	Pro	Glu	Val	Arg	Asp	Val	Arg	Pro
									80	85				90
Tyr	Ile	Val	Gly	Ala	Val	Val	Arg	Gly	Met	Asp	Leu	Gln	Pro	Gly
									95	100				105
Asn	Ala	Leu	Lys	Arg	Phe	Leu	Thr	Ser	Gln	Thr	Lys	Leu	His	Glu
									110	115				120
Asp	Leu	Cys	Glu	Lys	Arg	Thr	Ala	Ala	Thr	Leu	Ala	Thr	His	Glu
									125	130				135
Leu	Arg	Ala	Val	Lys	Gly	Pro	Leu	Leu	Tyr	Cys	Ala	Arg	Pro	Pro
									140	145				150
Gln	Asp	Leu	Lys	Ile	Val	Pro	Leu	Gly	Arg	Lys	Glu	Ala	Lys	Ala
									155	160				165
Lys	Glu	Leu	Val	Arg	Gln	Leu	Gln	Leu	Glu	Ala	Glu	Glu	Gln	Arg
									170	175				180
Lys	Gln	Lys	Lys	Arg	Gln	Ser	Val	Ser	Gly	Leu	His	Arg	Tyr	Leu
									185	190				195
His	Leu	Leu	Asp	Gly	Asn	Glu	Asn	Tyr	Pro	Cys	Leu	Val	Asp	Ala
									200	205				210
Asp	Gly	Asp	Val	Ile	Ser	Phe	Pro	Pro	Ile	Thr	Asn	Ser	Glu	Lys
									215	220				225
Thr	Lys	Val	Lys	Lys	Thr	Thr	Ser	Asp	Leu	Phe	Leu	Glu	Val	Thr
									230	235				240
Ser	Ala	Thr	Ser	Leu	Gln	Ile	Cys	Lys	Asp	Val	Met	Asp	Ala	Leu
									245	250				255
Ile	Leu	Lys	Met	Ala	Glu	Met	Lys	Lys	Tyr	Thr	Leu	Glu	Asn	Lys
									260	265				270
Glu	Glu	Gly	Ser	Leu	Ser	Asp	Thr	Glu	Ala	Asp	Ala	Val	Ser	Gly
									275	280				285

Gln Leu Pro Asp Pro Thr Thr Asn Pro Ser Ala Gly Lys Asp Gly  
 290 295 300  
 Pro Ser Leu Leu Val Val Glu Gln Val Arg Val Val Asp Leu Glu  
 305 310 315  
 Gly Ser Leu Lys Val Val Tyr Pro Ser Lys Ala Asp Leu Ala Thr  
 320 325 330  
 Ala Pro Pro His Val Thr Val Val Arg  
 335

&lt;210&gt; 16

&lt;211&gt; 3902

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 1806212CB1

<400> 16  
 ggatgattgc ctcagcaggt gtgaagcgtg tgcttagtt tcgtgggagg cctggcatcc 60  
 ccgagagggg gggaaaaggt aaccactcct ttgtggaggt cgccagggtc attgtcggt 120  
 atttgcacag tcggctggc ggtgcaatgg cgaaagaaa aggaacagcc aaagtggact 180  
 ttttgaagaa gattgagaaa gaaatccaac agaaatggg tactgagaga gtgtttgagg 240  
 tcaatgcattt taatttagag aaacagacca gcaagggcaa gtatggat accttccat 300  
 acccatatat gaatggacgc cttcattttg gacacacgtt ttctttatcc aaatgtgagt 360  
 ttgctgttagg gtaccagcga ttgaaaggaa aatgttgcgt gtttccctt ggcctgcact 420  
 gtactgaaat gccttataag gcatgtgcgataaagttgaa aagagaaaata gagctgtatg 480  
 gttggccccc tgattttcca gatgaagaag aggaagagga agaaaccagt gttaaaacag 540  
 aagatataat aattaaggat aaagctaaag gaaaaaagag taaagctgct gctaaagctg 600  
 gatcttctaa ataccagtgg ggcattatga aatcccttgg cctgtctgtat gaagagatag 660  
 taaaattttc tgaagcagaa cattggctg atttttccc gccactggct attcaggatt 720  
 taaaagaat gggtttgaag gtagactggc gtcgttccat catcaccat gatgttaatc 780  
 cttaactatgtt ttcattttgtc agatggcaat tttaacatt aagagaaaaga aacaaaatata 840  
 aatttggaa gcggtataca atttactctc cgaagatgg acagccttc atggatcatg 900  
 atagacaaac tggagagggt gttggaccc aggaatatac ttactcaaa ttgaaggtgc 960  
 ttgagccata cccatctaaa ttaagtggcc tggaaaggtaa aaatatttc ttggggctg 1020  
 ctactctcag acctgagacc atgtttggc agacaaattt gttgggtcgt cctgatatga 1080  
 agtacattgg attttagacg gtgaatggg atatattcat ctgtacccaa aaagcagcc 1140  
 ggaatatgtc ataccaggcc ttaccaaag acaatggcgt ggtgcctgtt gttaaaggaat 1200  
 taatggggg gaaaattttt ggtgcacac ttctgcacc tttaacatca tacaaggtga 1260  
 tctatgttccat cccatgtca actattaaagg aggataaaagg cactgggtg gttacaagtg 1320  
 ttcccttccgat cttccctgtat gatattgtc ccctcagaga cttgaagaaa aagaaggct 1380  
 tacgagcaaa atatggaaat agagatgaca tggcttgcc atttgaggcc gttccagtca 1440  
 ttgaaatccc aggttttggaaatcttctg ctgttaaccat ttgtatgatgatgatgatg 1500  
 agagccagaa tgaccggaa aaacttgcag aagcaaagga gaagatataat ctaaaaggat 1560  
 tttatgaggg tatcatgtt gttggatggat ttaaaggaca gaaggttcaa gatgtaaaga 1620  
 agactattca gaaaaagatg attgacgctg gagatgcact tatttacatg gaaccagaga 1680  
 aacaagtgtat gtcgggtcg tcagatgaaat gttttgtggc tctgtgtgac cagttgtact 1740  
 tggattatgg agaagagaat tggaaagaaac agacatctca gtgcttgaag aacctggaaa 1800  
 cattctgtga ggagaccagg aggaattttg aagccaccc aggttggcta caagaacatg 1860  
 cttgtcaag aacttatggt cttaggcactc acctgccttggatgagccatc tggctgattg 1920  
 aatcactttc tgactccact atttacatgg cattttacac agttgcacac ctattgcagg 1980  
 ggggttaactt gcatggacag gcagatctc cgctggcat tagaccgca cagatgacca 2040  
 aggaagtttg ggattatgtt ttcttcaagg aggcttccat tccttaagact cagattgca 2100  
 agggaaaattt agatcgtta aagcaggagt ttgaattctg gtatctgtt gatcttcgca 2160  
 tctctggcaa ggatctgtt ccaaattatc ttcatatca ctttataat catgtggcta 2220  
 tggccggaa acaaagtgc aatggccata cagctgtgag agcaaatggc catctccctcc 2280  
 tgaactctga gaagatgtca aatccacag gcaacttccat cactttgacc caagctattg 2340  
 acaaattttc agcagatgga atgcgtttgg ctctggctga tgctgggtac actgtagaag 2400  
 atgccaactt tggaaagcc atggcagatg caggtattct ccgtctgtac acctgggtag 2460  
 agtgggtgaa agaaatgggtt gccaactggg acagcctaag aagtggctt gccagcactt 2520  
 tcaatgtatag agttttgtcc agtgaatttga atgcaggat tataaaaaca gatcaaaaact 2580  
 atgaaaatggat gatgtttaaa gaagctttga aaacagggtt ttttgatgatgatgatgatg 2640  
 aagataagta ccgtgaattt gctgtggaaat ggtgcacag agaacttgcgat tttgggttta 2700  
 ttgaagttca gacacttctc ctgcgtccat tctgtccaca ttgtgtgatgatgatgatgatg 2760  
 cactcctggg aaagcctgac tcaattatga atgcttcatg gcctgtggca ggtcctgttta 2820

atgaagttt aatacactcc tcacagtatc ttatggaagt aacacatgac cttagactac 2880  
 gactcaagaa ctatatgatg ccagctaaag ggaagaagac tgacaaacaa cccctgcaga 2940  
 agccctcaca ttgcaccatc tatgtggcaa agaactatcc accttggca cataccaccc 3000  
 tgtctgttct acgtaaacac tttgaggcca ataacggaaa actgcctgac aacaaagtca 3060  
 ttgctagtga actaggcagt atgcacaaac tgaagaaata catgaagaaa gtcatgccat 3120  
 ttgttgcatt gattaaggaa aatctggaga agatggggcc tcgtattctg gatttgcata 3180  
 tagaatttga tgaaaaaggct gtgcttatgg agaardatag ctatctgact aattcgctt 3240  
 agctagaaca catagaagtc aagtttgct ccgaagcaga agataaaaatc agggaaagact 3300  
 gctgtctgg gaaaccactt aatgttttta gaatagaacc tggtgtgtcc gtttctctgg 3360  
 tgaatccccca gccatccaat ggccacttct caaccaaaaat taaaatcagg caaggagata 3420  
 actgtgattc cataatcagg cgfttaatga aaatgaatcg aggaattaaa gaccttcca 3480  
 aagtgaact gatgagattt gatgatccac tggggggcc tcgacgagtt cctgtctgg 3540  
 gaaaggagta caccgagaag acccccattt ctgagcatgc tggggccat gtggaccta 3600  
 tgagcaagaa aattcatctg actgagaatg ggataagggt ggatattggc gatacaataa 3660  
 tctatctgt tcattaaact catgcacatt ggagattat cctgggttct taggaataact 3720  
 actactctga ttgtgtctac tgattggcta tcagaacctt aggctggacc taaatagatt 3780  
 gatttcattt ctaaccatcc aattctgcat gtattcataa ttctatcaag tcatcttga 3840  
 ttcttgacc taataaattt tttttccctg ttctttgggt gtccaagaaa aaaaaaaaaa 3900  
 aa 3902

&lt;210&gt; 17

&lt;211&gt; 3317

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 2083883CB1

&lt;400&gt; 17

catggcctga ctcgggacag ctcagagcag ggcagaactg gggacactct gggccggcct 60  
 tctgcctgca tggacgcctc gaagccaccc tgcctctgg ggaaccacga gcgagggaaag 120  
 aaggacaggg actcgtgtgg caggaagaac tcagagccgg gaagccccc ttcaactagaa 180  
 gcactgagag atgcggccccc ctcgcagggc ctgaaattcc tgcgtgttgc cacaagatg 240  
 ctttttatct ttaactttt gtttcccca cttccgaccc cggcggttgc ctgcacccctg 300  
 acatttggag ctgcacatctt cttgtggctg atcaccagac ctcaaccctg ttacccctt 360  
 cttgacactgca acaatcagtc tggtggaaatt gagggaggag cacggaaaggg ggttccca 420  
 aagaacaatg acctaacaag ttgctgctc tcagatgcca agactatgt tgagggtttc 480  
 caaagaggac tcgctgtgtc tgacaatggg ccctgcttgc gatataaaaa accaaaccag 540  
 ccctacatcta ggctatcta caaaacagggt tctgatagag cagactaccc gggccctgt 600  
 ctcttgatca aaggatataa atcatcacca gaccatgtt tcggcatct tgctcagaat 660  
 aggccagagt ggatcatctc cgaattggct tggttacacgt actctatgtt agctgtaccc 720  
 ctgtatgaca ctttgggacc agaagccatc gtacatattt tcaacaaggc tgatatcgcc 780  
 gtgggtatct gtgacacacc cccaaaggca ttgggtctga tagggatgt agagaaaggc 840  
 ttcaccccgaa gcctgaaggt gatcatccctt atggacccct ttgtatgtca cctgaagcaa 900  
 agaggggaga agagtggaaat tgagatctt tcccttatatg atgctgagaa cctaggcaaa 960  
 gacacttca gaaaacccctgt gcctccttagc ccagaagacc tgagcgtcat ctgcttcacc 1020  
 agtgggacca cagggtgaccc caaaggagcc atgataaccc atcaaaaat tggccaaat 1080  
 gctgctgcct ttctcaaatg tggggagcat gctttaggac ccactccctg tgatgtggcc 1140  
 atatccatcc tccctctggc tcatatgtt gagaggattt tacaggctgt tggatcagc 1200  
 tggggccca gagttggatt cttccaaaggg gatattcggt tgcgtgtca cgacatgaag 1260  
 actttgaagg ccacattttt tcccgggtt cctcgactcc ttaacaggat ctacgataag 1320  
 gtacaaaatg aggccaaagac acccttgaag aagttttgt tgaagctggc tggccaaat 1380  
 aaattcaaaag agcttcaaaa gggtatcatc aggcatgata gtttctggaa caagctcatc 1440  
 ttgtcaaaaga tccagggacag cttggggcga aggggtcgta taattgtcact tggagctgcc 1500  
 cccatgtcca cttcagtcat gacattttt cggcggccaa tgggatgtca ggtgtatgaa 1560  
 gctttaggtc aaacagaatg cacaggtggc tgcacattt cattacccgg ggactggaca 1620  
 tcaggtcactt ttgggggtcc cttggcttgc aattacgtca agctggaaat tggggctgac 1680  
 atgaactact ttacagtggaa taatgaaggaa gaggtctgca tcaagggtac aaacgtgttc 1740  
 aaaggatacc tgaaggaccc tgagaagaca caggaagcccc tggacagttt tggctggctt 1800  
 cacacaggag acattttgtcg ctggctcccg aatgttactc tgaagatcat cgaccgtaaa 1860  
 aagaacattt tcaagctggc ccaaggagaa tacattgcac cagagaagat agaaaaatatc 1920  
 tacaacagga gtcaaccagt gttacaaaatt tttgtacacg gggagagatc acggctcatcc 1980  
 ttagtaggaa tggtgggtcc tgacacagat gtactccctt catttgcacg caagcttggg 2040  
 gtgaagggtt ctttgcattt aaccatgtt taagggaaatc catttttagaa 2100

gacttgcaga	aaattgggaa	agaaaagtggc	cttaaaaactt	ttgaacaggt	caaagccatt	2160
tttcttcatc	cagagccatt	ttccattgaa	aatgggctct	tgacaccaac	attgaaagca	2220
aaggcaggag	agctttccaa	atacttccgg	acccaaattt	acagcctgta	tgagcacatc	2280
caggatttag	ataaggtact	taagtacctg	ccggcccaact	gtgcactgt	tgtgagaaaa	2340
tggattaaaa	actattctta	catttggttt	gccttccctc	ctatttttt	ttaacctgtt	2400
aaactctaaa	gcatagctt	ttgtttata	tttagagacata	taatgtgtaa	acttagttcc	2460
caaataaattc	aatccgtct	ttccccatctt	cgatgttgct	aatattaaagg	cttcagggt	2520
acttttatca	acatgcctgt	cttcaagatc	ccagttatgt	ttctgtgtcc	tccctcatga	2580
tttccaaacct	taatactatt	agtaaccaca	agttcaaggg	tcaaaggac	cctctgtgcc	2640
ttcttcctttg	tttgtgtata	aacataaactt	gc当地acagtc	tctatgttta	tttacatctt	2700
ctactgttca	aactaagaga	tttttaaatt	ctgaaaaaact	gcttacaatt	catgtttct	2760
agccactcca	caaaccacta	aaatttttagt	tttagcctat	cactcatgtc	aatcatatct	2820
atgagacaaa	tgtctccgat	gctcttctgc	gttaaattttaa	tttgttactg	aaggggaaaag	2880
tttgatcata	ccaaacattt	cctaaactct	ctagtttagat	atctgacttg	ggagtattaa	2940
aaattgggtc	tatgacatac	tgtccaaaag	gaatgtgtgt	cttaaagcat	tatttacagt	3000
aggaactggg	gagtaaatct	gttccctaca	gttgcgtgt	gagctggaaag	ctgtggggga	3060
aggagttgac	agggtggggcc	agtgaacttt	tccagtaaat	gaagcaagca	ctgaataaaaa	3120
acctcctgaa	ctgggaacaa	agatctacag	gcaagcaaga	tggccacaca	acaggcttat	3180
tttctgtgaa	ggaaccaact	gatctcccc	acccttggat	tagagttcct	gctctacatt	3240
acccacagat	aacacatgtt	gtttctactt	gttaaattgtaa	agtctttaaa	ataaactatt	3300
acagataaaaa	aaaaaaaa					3317

<210> 18  
<211> 1928  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2454288CB1

<400> 18  
ccccacgcgtc cgcgacacac catgccgact gtcagcgtga agcgtgatct gctttccaa 60  
gccctggcc gcacctacac tgacgaagaa ttgtatgaac tatgtttga atttggctg 120  
gagctttagt aaattacatc tgagaaggaa ataataagta aagaacaagg taatgttaaag 180  
gcagcaggag cctctgtatgt tggtcttac aaaattgacg tccctgcca tagatatgat 240  
ctctgtgtc tggaaaggatt gttcgagga cttcaggctc tcaaagaaag gataaaggct 300  
ccagtgtata aacgggtat gcctgtatggaa aaaatccaga aattgattat cacagaagag 360  
acagctaaga tacgttctt tgcggtagca gcagttctc gtaatataaa gtttactaa 420  
gatcgatatg acagcttcat tgaacttcg gagaattac atcagaatat ttgcaggaaa 480  
agagcactgg ttgccattgg tacccatgtat ttggacactt tgcggggccc atttacttat 540  
actgcaaagc gtccattcaga tatcaattc aagcctctaa ataagaccaa ggagtataaca 600  
gcctgtgaac tggatgtatcat atacaagact gacaatcacc tgaacacatta ttacatatac 660  
attgaaaaca aaccctgtat tccagttatc tatgatagca atgggtgcgt ctttcaatg 720  
cctcccatca tcaatgggaa tcattccaga ataacagtaa atactagaaa tattttatt 780  
gaatgcacgg gaactgactt tactaaggca aaaatagttc ttgatattat tgcaccatg 840  
ttcagtgaat attgtgagaa tcaatttacg gtcgaagctg ctgaagtggt tttccataat 900  
ggaaaatcac atacctttcc agaatttagt taccggaaagg agatggtag agctgaccata 960  
attaacaaaa aagttggaaat cagagaaaact ccagaaaatc ttgccaaact tctgaccagg 1020  
atgttattaa aatcagaagt cataggtat ggaatcaga ttgagattga aatccctcca 1080  
accagagctg acattatcca tgcattgtat attttagaaat atgcagctat tgcttatgga 1140  
tataacaaca ttcaagatgac tctcccgaaa acttacacca tagctaatacatttccctt 1200  
aataagctca ctgaaacttct ccgacatgac atggcagccg ctggcttcac tgaagcactt 1260  
acctttgccc tggctccca agaagatatt gctgataaaac taggtgtgga tatctctgca 1320  
acaaaggcag tccacataag taatcctaaa acagctgaat ttcagggtgc acgcactacc 1380  
cttcttcctg gcctcctgaa gaccatagca gcaaatcgta agatccccct tccactgaaa 1440  
ctgtttgaaa tctctgacat tctaataaata gattctaatacagatgttagg tgcaaaaaac 1500  
tacagacatc tctgtgtgtt ttattacaac aagaatctg ggttgagat cattcatggg 1560  
ctgctggaca gaattatgca gttgctcgat gtgcctctg gtgaagacaa ggggggatat 1620  
gtgatcaaag catcagaagg gcctgtttc tttcccgggc gatgtgcaga gatctttgcc 1680  
aggggtctaa ggcgtcggaa gcttgggtc cttcattctg acgttatac caaatattgag 1740  
ctgacatgc cctgtcttc tctagaataatc aatattggac cttttttgtg aagattggtc 1800  
tctgtgtgtt gattcttctc ccagggtgtcc ctttcttc cctctgtc ctaatgtct 1860  
cctccacagg gaacatctat ttgggctt atgtttaata aagtagaaaag cactgtcaaa 1920  
aaaaaaaaaa

<210> 19  
 <211> 2122  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 1513539CB1

<400> 19

caggtcacac gcagccagtc agcatttagag ctgagatgcc aagctctcag ccacacatgt 60  
 gcactcacct ggaacatctg tggagctgtt agaatcgctg ccactttca tgaactgaa 120  
 gtgcacatctt gggtttgc aaactaaac cagctgctac aatgtcaact acataggatt 180  
 caaaaggccct tcggatttct ggcagtcgtt gcatacgacc ctgcctcggg agttggctcc 240  
 ttgtcttagta tttaatacat ccccaaactt ggcttattt tcagctgcct ttgccttcat 300  
 tgggtgtaaa gatagtgcgg gtgactcaga tgggtgtgtt caggagctca agtccatgg 360  
 ggcacccaag atcgccaaat atgctgtgcc tggatgagatc ctgggtgtga aacgtcttcc 420  
 aaaaaccagg tctggaaagg tcatgcggcg gctcctgagg aagatcatca ctatgagggc 480  
 ccaggagctg ggagacata ccaccccttggg ggacccccc 540  
 tggcttccatc aagtgcaggc acaagcaggc tgctgcctt tgagctggca ccttgggg 600  
 ctcttggat gggccggcac ccaagccctg gcttgcctt cccagaaggt accccctgagg 660  
 ttggcgtctt cctacgtccc agaagcagcc cccacccccc 720  
 acgtgaagct gggctgagag cccttctcc catccattggg aggtcccaagg agtgtcacc 780  
 atggagagggc tatgcacat ggcttagggct gggttgcct tctgagtttgg 840  
 atgaaaaggc attgcacatc ccatttctt gccccttgc gccagcacag gaaggtgagg 900  
 ccctgggata ggcgcctgc tcagataaca cagagctgt tagcttagtag caaccgtgtt 960  
 ttctccagat ctgtcttagat acaaaggctca gaaatctt tttataactt ttatattgtg 1020  
 gaagaacagc atgcaacact cacatgttagt gtgtggattt acttgaacat gttctttta 1080  
 acatgttagtt atgaaaatct ctttttttgc ctctactgtt gaggaaacat gaggatcaga 1140  
 ggcacacattt ttaatttttttgc ttgtgtt tggaaagtctg aattggagat gttgtaccc 1200  
 ctgtcttaaac agttcccttgc agaacttccca agcctccggc atctttctt ggtgagtgtt 1260  
 ttccttgc ttgggtgtgtt ataatggagc taactcttca ggggtggggt gaatgtggcc 1320  
 gccttagttc tgaagctact ccagttatgt tctgtttctt caagctgtga tccagaaaaga 1380  
 tttttgtgcc cccagatgcc tcttgcattt agaggcaaca tactccaaat agtgggttc 1440  
 ttcagggaaag ctattagaaa ctcaggttgc ttgttagagc actaacttgg tcagagccaa 1500  
 atccctggcaa acgctgccttgc accttcacttgc tgggttggg gcagtggaaa ccactggaggt 1560  
 ccaatgtatgaa gacttggagg tctggatccca gtctctctt gttttaaatgt gacttaggtg 1620  
 ctgtcaacat tagcaagata atggaaatca cgacgcctgtt ggggtgcttac ctccctgtca 1680  
 ggcacatgcagg ggctggcggt tggcaggggg aggaggccca gtgagccggg tccctttaggg 1740  
 gagggagagt ttgttcttgc tggcccccacag tctacccttcc agggccttgc ggcagtgcctt 1800  
 gtgttccgggg ggtgttgcggg ccactgttgc cccactcggt cgtgggttgc ctggcctt 1860  
 ggggtgagtgaa acctgttgcggg cccaggaggtt ggtgttggct gcagggttaca caaataactga 1920  
 gtgggtgttgc ttgttacatg gcttagcaac aaagctgttgc cttggcatg gggggctgtt 1980  
 gtgttagctac agttgttgcgtt ttgttgcgtt gcttagctt ccattttgttgc gagagggacc 2040  
 tggacatgttgc cccgggcattc tgaatgtatc gtagggagg gagttcaaat aaagctttat 2100  
 ttgttgcattt ttcaaaaaaaa aa 2122

<210> 20  
 <211> 2357  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2148623CB1

<400> 20

gcttttcag ggctgagccca tcctgcgtgtt cttgcgttgc gtggaaatgc ccagccgagg 60  
 gacgcgacca gaggacagct ctgtgttgc cccaccgc aattcgaccc cacacaaggaa 120  
 ggtatctaaggc agcaagatata aagaacaaaa aattgttgcgtt gatgaactttt ctaacctttaa 180  
 gaagaatagg accgaacaga aatgttgcgtt gagagcaaga atatattggaa tgaactgaaa 240  
 aaagaatacc aagaatataa aactttagac aagacccaaa tcaagaataa gtcaaccttgc 300  
 tttcacatataa caatgttgcgtt catttttttttgc tctgttgc tttctgttgc gcatttcagt 360  
 caagatataa aagaggactt actatataat cttaaacgc ggggacccaa tagtagtaaa 420  
 caattgtttaa agtctgttgcgtt taactaccatg tgggttgc tgggttgc tgggttgc 480

agggtgtttt	tgactaccca	gcctgtggaa	gatgaaagag	gcaatgttt	tctatggaa	540
ggagaaattt	ttagtggaaat	aaaggtgaa	gctgaagaga	atgacactca	aattttgtt	600
aattatcttt	cctcctgtaa	gaatgaatct	gagattttgt	cacttctc	agaagtacaa	660
ggtccctggt	catttatata	ttatcaagca	tctagtcatt	atttatggtt	tggttagggat	720
tttttggtc	gcccgtagctt	gctttggcat	tttagtaatt	tggcaagag	tttctgcctc	780
tcttcagttg	gcacccaaac	atctggattt	gcaaattcgt	ggcaagaagt	tccagcatct	840
ggactttca	gaattgtatct	taagtcact	gtcattttcca	gatgcattat	tttacaactg	900
tatccttggaa	aatatatttc	tagggagaat	attattgaag	aaaatgttaa	tagctgagt	960
caaatttcag	cagacttacc	agcatttgc	tcagttgtt	caaataaagc	caaactgtat	1020
cttggaaaaac	ctgttggttcc	ttaaatatgt	atgttgcac	aagctgcatt	ggagactcat	1080
tgcagtaata	tttccaatgt	gccacccata	agagagatac	ttcaagtctt	tcttactgtat	1140
gtacacatga	aggaagtaat	tcagcagttc	attgtatgtcc	tgagtgttagc	agtcaagaaa	1200
cgtgtcttgt	gttacccat	ggatggaaac	ctgacagca	atgaagtttt	gaaaacgtgt	1260
gataggaaag	caaataatgtgc	aatccctgtt	tctgggggca	ttgattccat	gttatttgc	1320
acccttgcgt	accgtcataat	tcctttagat	gaaccaattt	atcttcttaa	tgtagctt	1380
atagctgaag	aaaagaccat	gccaacttacc	tttaacagaa	aaggaaataa	acagaaaaat	1440
aaatgtgaaa	tacccctcaga	agaattctct	aaagatgtt	ctgctgtgc	tgcgtacagt	1500
cctaataaaac	atgtcagttt	accagatcga	atcacaggaa	ggcgggact	aaaggaacta	1560
caagctgtta	gccccttcccg	aatttgcatt	tttgcgtt	ttaatgtttc	tatggaaagaa	1620
ctgcagaaaat	taagaagaac	tcgaatattgt	cacttaattc	ggccatttgg	tacagtttgc	1680
gatgatagca	ttggctgtgc	agtctgttt	gcttcttagag	gaatttgcatt	tttgcgttgc	1740
caggaaggag	tggaaatccat	tcagagcaat	gcaaaaggtag	ttctacttgc	aatttgcgtt	1800
gatgagcaac	ttgcagggtt	ttctcgtcat	cgtgtccgc	ttcagtcgca	tttgcgttgc	1860
ggatttgaata	aggaaataat	gatggaaactg	ggtcgaattt	tttcttagaa	tcttgggtcg	1920
gatgacagag	ttatttggta	tcatggaaaa	gaagcaagat	ttccttccct	ggatgaaaat	1980
gttgtctcct	ttctaaattc	tctggccatt	tggggaaaaag	caaacttgc	tttaccccttgc	2040
ggaatttgggt	aaaaattact	tttacgcctt	gcagctgttg	aacttgcgtt	tacagccctt	2100
gctcttcgtc	caaaaacgggc	catgcattt	ggatcaagaa	tttgcggaaaatt	ggaaaaaaaatt	2160
aatgaaaagg	catctgtat	atgtggacgg	ctccaaatca	tgtcccttgc	aaatcttttgc	2220
atgaaaagg	agacttataatt	gtaatgtgtat	tcacaatgtt	acaatataaa	aataagtttgc	2280
tataataattt	tataaaaagta	agatactctg	ctgctttact	attgtataat	atagtagtttgc	2340
taaagttcaa	aaaaaaa					2357

<210> 21  
<211> 2136  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2579405CB1

```

<400> 21
ccgtccactt ggcgagttag acgctgatgg gaggatggac atactggtgt ctgagtgctc 60
cgcgccgctg ctgcagcagg aagaagagat taaatctctg actgctgaaa ttgaccgggt 120
aaaaaactgt ggctgtttag gagcttctcc aaatttggag cagttacaag aagaaaattt 180
aaaattaaag tatcgactga atattctcg aaagagtctt caggcagaaa ggaacaaacc 240
aactaaaaat atgattaaca ttattagccg cctacaagag gtcttggtc atgcaattaa 300
ggctgcatac ccagatgttg aaaatctcc tctgcttagt acaccaagtc acgaggccaa 360
gttggggac tattcgttgc atatgtctat ggttatttc catatgtctca aaaccaagga 420
acagaaagt aatccaagag aaattgttgc aaacattacc aaacacctcc cagacaatga 480
atgttattaa aaggttggaa ttgctgtcc tggtttattt aatgtccact taagaaaggaa 540
ttttgtatca gaacaattga ccagtcttct agtgaatggaa gttcaactac ctgctctggg 600
agagaataaa aaggttatacg ttgactttc ctccccataat atagctaaag agatgcatagt 660
aggccacactg aggtcaacta tcataggaga gagtataaggc cgccttttgc aatttgcagg 720
gtatgacgtg ctcaggttaa atcatgttagg agactggggg acccagtttgc gcatgctcat 780
cgctcacctg caagacaaat ttccagattt tctaacagtt tcacccctta ttggggatct 840
tcaggtcttt tataaggat ctaagaagag gtttgataact gaggaggaat ttaagaagcgg 900
agcatatcag tggtagttc tgctccaggaa taaaacccca gatattacaa aagcttggaa 960
gcttatctgt gatgtctccc gccaaggattt aataaaaaatc tatgtatgtcat tggacgtctc 1020
tttaatagag agagggggat cttctatca agataggatg aatgtatattt taaaaggaaat 1080
tgaagataga ggatttggatc aggtggatga tggcagggaaat tttgtatatttgc tcccagggtt 1140
ttccatacca ttaaccatag taaaatcaga tgaggttat acctatgata catctgaccc 1200
ggctgctatt aaacaaagac tatttggatc aaaaggatcat atgattatct atgttggatc 1260
caatggacaa tctgtgcact tccagacaat atttgcgtctc gtcacaaatgc ttgggttggta 1320

```

tgaccctaaa gtaactcgag tcttcatgc tggatttggc gtgggtctag gggaaagacaa 1380  
 gaaaaagttt aaaacacgtt cgggtgaaac agtgcgcctc atggatcttc tggagaagg 1440  
 actaaaacga tccatggaca agttgaagga aaaagaaaaga gacaaggctt taactgcaga 1500  
 ggaattgaat gctgctcaga catccgttgc atatggctgc atcaaatacg ctgacccccc 1560  
 ccataaccgg ttgaatgact acatcttctc ctttgacaaa atgctagatg acagaggaaa 1620  
 tacagctgt tacttggat atgccttcac tagaatcagg tctattgcac gtctggccaa 1680  
 tattatggaa gaaatgctc aaaaagctgc tcgagaaacc aagattctt tggatcatga 1740  
 gaaggaatgg aaactaggcc ggtgcattt acggttccct gagattctgc aaaagattt 1800  
 agatgactta tttctccaca ctctctgtga ttatataat gagctggcaa ctgcttcac 1860  
 agagttctat gatagctgct actgtgtgga gaaagataga cagactgaa aaatattgaa 1920  
 ggtgaacatg tggcgatgc tgctatgtga agcagtagct gctgtcatgg ccaaggggtt 1980  
 tgatatcctg ggaataaaaac ctgtccaaag gatgtaatcc ttcatagtt tgaacactgt 2040  
 gtgttttac caaagtggcc attggcactg tttgttttacaatcatg tggacacaag 2100  
 cataagtaaa gaaaatttgc caaccaaaaa aaaaaaa 2136

<210> 22  
 <211> 2480  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 2662427CB1

<400> 22  
 ggaacgggtt tggcggtgtgg gacgcagctg cctctgtact ggggagtcac ggagtggccg 60  
 ggcctccagg acatggccgc ggcctctgctc gtgtcggtgc tgctgggtgc ggccggagagg 120  
 aaccgggtggc atcgctccccc gagcctgtc ctggccggca ggacatgggt gtggaggca 180  
 agaaccatga agtacacaaac acccacatgg agaaacacat ccaagggtctt cattgcaaac 240  
 agaggagaaa ttgcctgcag ggtgatgcgc acagccaaaa aactgggtgt acagactgtg 300  
 gcggtttata gtgaggctga cagaatttcc atgcatgtat atatggcaga tgaagcatat 360  
 tccatcgccc cgcctccccc ccagcagagc tacatatcta tggagaaaat cattcaagt 420  
 gccaagaccc ctgctgcaca ggctatccat ccaggatgcc gtttcttc agaaaacatg 480  
 gaatttgctg aactttgtaa gcaagaagga attatttta taggcctcc tccatctgca 540  
 attagagaca tgggtataaaa gaggcacatcc aaatccataa tggctgtgc tggagtacct 600  
 gttgtggagg gttatcatgg tgaggaccat tcagaccatg gcctgaagga acacgccagg 660  
 agaattggct atcctgtcat gattaaagcc gtccgggggtg gaggagaaa aggaatgagg 720  
 attgttagat cagaacaaga atttcaagaa cagtagatg cagcacggag agaagctaag 780  
 aagtctttca atgatgtatc tatgctgtatc gagaagttt tagacacacc gggcatgt 840  
 gaagtccagg tgtttggatc tcacatggc aatgtgtgt acttggatc aagagactgt 900  
 agtgtgcaga ggcgcacatc gaaatgtatc gaggaggccc cagcgcctgg tattaaatct 960  
 gaagtaagaa aaaagctggg agaagctgca gtcagagctg ctaaagctgt aaattatgtt 1020  
 ggagcagggg ctgtggagtt tattatggac tcaaaaacata atttctgtt catggagatg 1080  
 aatacaagggc tgcaagtggc acatccctgtt actgagatga tcacagggaa tgacttggg 1140  
 gagtggcagc tttagattgc agcaggagag aagattccct tgagccagga agaaataact 1200  
 ctgcagggcc atgccttcga agctagaata tatgcagaag atcctagcaa taacttcatg 1260  
 cctgtggcag gcccattatc gcacccctt actcctcgag cagacccttc caccaggatt 1320  
 gaaactggag tacggcaagg agacgaagtt tccgtgcatt atgaccctat gattgcgaag 1380  
 ctggcgtgtt gggcagcaga tcgcccaggcg gcattgacaa aactgaggtt cagccttcgt 1440  
 cagtcacata ttgttggact gcccaccaac attgacttct tactcaacct gtctggccac 1500  
 ccagagttt aagctggaa cgtgcacatc gatttcatcc ctcacaccca caaacagttt 1560  
 ttgtctgtc ggaaggctgc agccaaagag tctttatgcc aggcagccct gggcttcatc 1620  
 ctcacaggaga aagccatgtac cgcacacttc actcttcagg cacatgtatc attctctcca 1680  
 ttttcgtcta gcagttggaa aagactgaat atctgtata ccagaaacat gactttaaa 1740  
 gatggtaaaa acaatgtatc catagctgtc acgtataacc atgatgggtc ttatagcatg 1800  
 cagattgtatc ataaaacttt ccaagtcctt ggtatcttt acagcgaggg agactgcact 1860  
 tacctgtatc gttctgttta tggagttgtc agttaaagcga agctgattat cctggaaaac 1920  
 actatttacc tattttccaa ggaaggaatc attgagattt acattccagt cccaaataac 1980  
 ttatcttcgt tgagctcaca agaaaactcag ggcggccccc tagctccat gacttggaaacc 2040  
 attgtttttttt gttttgtcaaa agctggagac aaagtggaaag cgggagattt cctcatgggt 2100  
 atgatgcgcac tgaagatggc gcataccata aagtctccaa aggtggcact agttaaagaaa 2160  
 gtgttctaca gagaagggtc tcaggccaa acagacacactc cttttagtgc gtttggagg 2220  
 gaagaatcag aaaaaaggaa atcggaaatac actccagcaa ggaaatggcc agttaagtag 2280  
 tgccttcctt ctccacccaaa aagaggaatc gcctccagct tttctggggg tctcataaaag 2340  
 acagtttttca taaaatgtt gctgaacacc tttcatattt gagaatcatg 2400

catttgggtc actaattatc tcaaaatatt tcatactaat aaagttgaat tatttttat 2460  
tggaaaggccaa aaaaaaaaaa 2480

<210> 23  
<211> 2254  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc\_feature  
<223> Incyte ID No: 2844928CB1

Line Number	Sequence 1	Sequence 2	Sequence 3	Sequence 4	Sequence 5	Sequence 6	Sequence 7	Sequence 8	Sequence 9	Sequence 10	Sequence 11	Sequence 12	Sequence 13	Sequence 14	Sequence 15	Sequence 16	Sequence 17	Sequence 18	Sequence 19	Sequence 20	Sequence 21	Sequence 22	Sequence 23	Sequence 24	Sequence 25	Sequence 26	Sequence 27	Sequence 28	Sequence 29	Sequence 30	Sequence 31	Sequence 32	Sequence 33	Sequence 34	Sequence 35	Sequence 36	Sequence 37	Sequence 38	Sequence 39	Sequence 40	Sequence 41	Sequence 42	Sequence 43	Sequence 44	Sequence 45	Sequence 46	Sequence 47	Sequence 48	Sequence 49	Sequence 50	Sequence 51	Sequence 52	Sequence 53	Sequence 54	Sequence 55	Sequence 56	Sequence 57	Sequence 58	Sequence 59	Sequence 60	Sequence 61	Sequence 62	Sequence 63	Sequence 64	Sequence 65	Sequence 66	Sequence 67	Sequence 68	Sequence 69	Sequence 70	Sequence 71	Sequence 72	Sequence 73	Sequence 74	Sequence 75	Sequence 76	Sequence 77	Sequence 78	Sequence 79	Sequence 80	Sequence 81	Sequence 82	Sequence 83	Sequence 84	Sequence 85	Sequence 86	Sequence 87	Sequence 88	Sequence 89	Sequence 90	Sequence 91	Sequence 92	Sequence 93	Sequence 94	Sequence 95	Sequence 96	Sequence 97	Sequence 98	Sequence 99	Sequence 100	Sequence 101	Sequence 102	Sequence 103	Sequence 104	Sequence 105	Sequence 106	Sequence 107	Sequence 108	Sequence 109	Sequence 110	Sequence 111	Sequence 112	Sequence 113	Sequence 114	Sequence 115	Sequence 116	Sequence 117	Sequence 118	Sequence 119	Sequence 120	Sequence 121	Sequence 122	Sequence 123	Sequence 124	Sequence 125	Sequence 126	Sequence 127	Sequence 128	Sequence 129	Sequence 130	Sequence 131	Sequence 132	Sequence 133	Sequence 134	Sequence 135	Sequence 136	Sequence 137	Sequence 138	Sequence 139	Sequence 140	Sequence 141	Sequence 142	Sequence 143	Sequence 144	Sequence 145	Sequence 146	Sequence 147	Sequence 148	Sequence 149	Sequence 150	Sequence 151	Sequence 152	Sequence 153	Sequence 154	Sequence 155	Sequence 156	Sequence 157	Sequence 158	Sequence 159	Sequence 160	Sequence 161	Sequence 162	Sequence 163	Sequence 164	Sequence 165	Sequence 166	Sequence 167	Sequence 168	Sequence 169	Sequence 170	Sequence 171	Sequence 172	Sequence 173	Sequence 174	Sequence 175	Sequence 176	Sequence 177	Sequence 178	Sequence 179	Sequence 180	Sequence 181	Sequence 182	Sequence 183	Sequence 184	Sequence 185	Sequence 186	Sequence 187	Sequence 188	Sequence 189	Sequence 190	Sequence 191	Sequence 192	Sequence 193	Sequence 194	Sequence 195	Sequence 196	Sequence 197	Sequence 198	Sequence 199	Sequence 200	Sequence 201	Sequence 202	Sequence 203	Sequence 204	Sequence 205	Sequence 206	Sequence 207	Sequence 208	Sequence 209	Sequence 210	Sequence 211	Sequence 212	Sequence 213	Sequence 214	Sequence 215	Sequence 216	Sequence 217	Sequence 218	Sequence 219	Sequence 220	Sequence 221	Sequence 222	Sequence 223	Sequence 224	Sequence 225	Sequence 226	Sequence 227	Sequence 228	Sequence 229	Sequence 230	Sequence 231	Sequence 232	Sequence 233	Sequence 234	Sequence 235	Sequence 236	Sequence 237	Sequence 238	Sequence 239	Sequence 240	Sequence 241	Sequence 242	Sequence 243	Sequence 244	Sequence 245	Sequence 246	Sequence 247	Sequence 248	Sequence 249	Sequence 250	Sequence 251	Sequence 252	Sequence 253	Sequence 254	Sequence 255	Sequence 256	Sequence 257	Sequence 258	Sequence 259	Sequence 260	Sequence 261	Sequence 262	Sequence 263	Sequence 264	Sequence 265	Sequence 266	Sequence 267	Sequence 268	Sequence 269	Sequence 270	Sequence 271	Sequence 272	Sequence 273	Sequence 274	Sequence 275	Sequence 276	Sequence 277	Sequence 278	Sequence 279	Sequence 280	Sequence 281	Sequence 282	Sequence 283	Sequence 284	Sequence 285	Sequence 286	Sequence 287	Sequence 288	Sequence 289	Sequence 290	Sequence 291	Sequence 292	Sequence 293	Sequence 294	Sequence 295	Sequence 296	Sequence 297	Sequence 298	Sequence 299	Sequence 300	Sequence 301	Sequence 302	Sequence 303	Sequence 304	Sequence 305	Sequence 306	Sequence 307	Sequence 308	Sequence 309	Sequence 310	Sequence 311	Sequence 312	Sequence 313	Sequence 314	Sequence 315	Sequence 316	Sequence 317	Sequence 318	Sequence 319	Sequence 320	Sequence 321	Sequence 322	Sequence 323	Sequence 324	Sequence 325	Sequence 326	Sequence 327	Sequence 328	Sequence 329	Sequence 330	Sequence 331	Sequence 332	Sequence 333	Sequence 334	Sequence 335	Sequence 336	Sequence 337	Sequence 338	Sequence 339	Sequence 340	Sequence 341	Sequence 342	Sequence 343	Sequence 344	Sequence 345	Sequence 346	Sequence 347	Sequence 348	Sequence 349	Sequence 350	Sequence 351	Sequence 352	Sequence 353	Sequence 354	Sequence 355	Sequence 356	Sequence 357	Sequence 358	Sequence 359	Sequence 360	Sequence 361	Sequence 362	Sequence 363	Sequence 364	Sequence 365	Sequence 366	Sequence 367	Sequence 368	Sequence 369	Sequence 370	Sequence 371	Sequence 372	Sequence 373	Sequence 374	Sequence 375	Sequence 376	Sequence 377	Sequence 378	Sequence 379	Sequence 380	Sequence 381	Sequence 382	Sequence 383	Sequence 384	Sequence 385	Sequence 386	Sequence 387	Sequence 388	Sequence 389	Sequence 390	Sequence 391	Sequence 392	Sequence 393	Sequence 394	Sequence 395	Sequence 396	Sequence 397	Sequence 398	Sequence 399	Sequence 400
1	ggccgggacg	cagggcaaag	cgagccatgg	ctgtctacgt	cgggatgctg	ccctgggaa	60																																																																																																																																																																																																																																																																																																																																																																																																									
2	ggctgtgcgc	cgggagctcg	ggggtgctgg	gggcccgggc	cgcctctct	cgagttggc	120																																																																																																																																																																																																																																																																																																																																																																																																									
3	aggaagccag	gttgcagggt	gtccgttcc	tcagttccag	agaggtggat	cgcatggct	180																																																																																																																																																																																																																																																																																																																																																																																																									
4	ccacgccccat	cgaggcctc	agctacgttc	aggggtgcac	aaaaaagcat	cttaacagaca	240																																																																																																																																																																																																																																																																																																																																																																																																									
5	agactgtggg	ccagtgcctg	gagaccacag	cacagagggt	cccagaacga	gaggccttgg	300																																																																																																																																																																																																																																																																																																																																																																																																									
6	tcgtcccca	tgaagacgtc	agggtgacct	ttgcccact	caaggaggag	gtggacaaag	360																																																																																																																																																																																																																																																																																																																																																																																																									
7	ctgcttctgg	cctccgtgac	atggcctct	gcaaagggtg	ccggctgggc	atgtggggac	420																																																																																																																																																																																																																																																																																																																																																																																																									
8	ctaactctca	tgcgtgggt	ctcatgcagt	tggccaccgc	ccaggcgggc	atcattctgg	480																																																																																																																																																																																																																																																																																																																																																																																																									
9	tgtctgtgaa	cccagctac	caggctatgg	aactggagta	tgtccctcaag	aagggtgggt	540																																																																																																																																																																																																																																																																																																																																																																																																									
10	gcaaggccct	tgtgttcccc	aagcaattca	agacccagca	atactacaac	gtcctgaaagc	600																																																																																																																																																																																																																																																																																																																																																																																																									
11	agatctgtcc	agaagttggag	aatgcccagc	cagggggcctt	gaagagtca	aggctcccaag	660																																																																																																																																																																																																																																																																																																																																																																																																									
12	atctgaccac	agtcatctcg	gtggatgccc	cttgcgggg	gaccctgctc	ctggatgaaag	720																																																																																																																																																																																																																																																																																																																																																																																																									
13	tggtggggc	tggcagcaca	cggcagcata	tgaccagct	ccaatacaac	cagcagttcc	780																																																																																																																																																																																																																																																																																																																																																																																																									
14	tgtccctgcca	tgacccatc	aacatccagt	tcacctcggg	gacaacaggg	agccccaaagg	840																																																																																																																																																																																																																																																																																																																																																																																																									
15	gggccacccct	ctcccaactac	aacattgtca	acaactccaa	cattttagga	gagcgcctgaa	900																																																																																																																																																																																																																																																																																																																																																																																																									
16	aactgcatga	gaagacacca	gagcagttgc	ggatgatcct	gcccaccccc	ctgttaccatt	960																																																																																																																																																																																																																																																																																																																																																																																																									
17	gcctgggttc	cgtggcaggc	acaatgatgt	gtctgtatgt	cggtgccacc	ctcatcttgg	1020																																																																																																																																																																																																																																																																																																																																																																																																									
18	cctctcccat	cttcaatggc	aagaaggcac	tggaggccat	cagcagagag	agaggcacct	1080																																																																																																																																																																																																																																																																																																																																																																																																									
19	tcctgtatgg	taccccccacg	atgttcgtgg	acattctgaa	ccagccagac	ttctccagg	1140																																																																																																																																																																																																																																																																																																																																																																																																									
20	atgacatctc	gaccatgtgt	ggaggtgtca	ttgctgggtc	ccctgcaccc	ccagagttga	1200																																																																																																																																																																																																																																																																																																																																																																																																									
21	tccgagccat	catcaacaag	ataaatatga	aggacacgtgt	gttgcattat	ggaaggacacag	1260																																																																																																																																																																																																																																																																																																																																																																																																									
22	agaacagtc	cgtgacatcc	ggcacttcc	ctgaggacac	tgtggagcag	aaggcagaaaa	1320																																																																																																																																																																																																																																																																																																																																																																																																									
23	gcgtggcag	aattatgcct	cacacggagg	cccggtatcat	gaacatggag	gcaggacgc	1380																																																																																																																																																																																																																																																																																																																																																																																																									
24	tggcaaagct	gaacacgcccc	ggggagctgt	gcatccgagg	gtactgcgtc	atgctgggt	1440																																																																																																																																																																																																																																																																																																																																																																																																									
25	actggggtga	gcctcagaag	acagaggaag	cagtggatca	ggacaagttg	tattggacag	1500																																																																																																																																																																																																																																																																																																																																																																																																									
26	gagatgtcgc	cacaatgaat	gagcagggct	tctgcaagat	cgtggccgc	tctaaggata	1560																																																																																																																																																																																																																																																																																																																																																																																																									
27	tgatcatccg	gggtggtgag	aacatctacc	ccgcagagct	cgaggacttc	tttcacacac	1620																																																																																																																																																																																																																																																																																																																																																																																																									
28	acccgaaggt	gcaggaagt	caggtgaggc	acttggctca	gttgagcccc	cagaaacaag	1680																																																																																																																																																																																																																																																																																																																																																																																																									
29	aaacacacat	gaacacgggt	atgtctgata	ttttcttgg	gccccttggaa	gtgggggag	1740																																																																																																																																																																																																																																																																																																																																																																																																									
30	tgaaggacga	tccgatgggg	gaagagattt	gtgcctgcat	tcggctgaag	gacggggagg	1800																																																																																																																																																																																																																																																																																																																																																																																																									
31	agaccacggt	ggaggagata	aaagcttct	gcaaaggggaa	gatcttcac	ttcaagatcc	1860																																																																																																																																																																																																																																																																																																																																																																																																									
32	cgaaagtacat	cgtgttggtc	acaaaactacc	ccctcaccat	ttcagggaaag	atccagaaat	1920																																																																																																																																																																																																																																																																																																																																																																																																									
33	tcaaaacttcg	agacgatgt	gaacgcacat	taaatctgt	aataaaagcg	caggcctgtc	1980																																																																																																																																																																																																																																																																																																																																																																																																									
34	ctggccgggtt	ggcttactc	tctccgtca	gaatgcacac	tggctttat	cacctagat	2040																																																																																																																																																																																																																																																																																																																																																																																																									
35	tcccccacac	ccagttctga	gccaggcaca	tcaaattgtca	aggaatttgac	tgaaccaact	2100																																																																																																																																																																																																																																																																																																																																																																																																									
36	aagagctcct	ggatgggtcc	gggaactcgc	ctgggcacaa	gtgcacaaa	ggcaggcagc	2160																																																																																																																																																																																																																																																																																																																																																																																																									
37	ctgcccaggc	cctccctct	gtccatcccc	cacatcccc	tgtctgtcct	tgtgatttgg	2220																																																																																																																																																																																																																																																																																																																																																																																																									
38	cataaaagac	tttgttttc	aaaaaaaaaa	aaaa		2254																																																																																																																																																																																																																																																																																																																																																																																																										

<210> 24  
<211> 1954  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3231586CB1

```
<400> 24
atccgggtacc acggccagtg caagctaaaa ttaaccctca ctaaaggaa taagcttggc 60
ccccggcccg  atgtttcccc gcgagaagac gtggaacatc tcgttcggcg gctgcggct 120
cctcgccgtc tactacgtcg gctgtggctc ctgcctccgc gaggacggcc ccttccgtat 180
```

ggccaacgcc acgcacatct acggcgccctc ggccggggcg ctcacggcca cggcgctgg 240  
 caccggggtc tgcctgggtg aggctggtgc caagttcatt gaggtatcta aagaggcccg 300  
 gaagcggttc ctggggccccc tgcacccctc cttcaacctg gtaaaagatca tcccgatctt 360  
 cctgctgaag gtcctgcctg ctgatagcca tgagcatgcc agtgggcgcc tggcatctc 420  
 cctgaccccg gtgtcagacg gcgagaatgt cattataatcc cacttcaact ccaaggacga 480  
 gtcatecag gccaatgtct gcagcggtt catccccgtg tactgtggc tcatccctcc 540  
 ctccctccag ggggtgcgt acgtggatgg tggcattca gacaacctgc cactctatga 600  
 gcttaagaac accatcacag tgcctccccc ctggggcag gatgacatct gtcgcagga 660  
 cagctccacc aacatccacg agtgcgggtt caccacacc agcatccagt tcaacctgcg 720  
 caacctctac cgcctctcca aggcccttccc cccggcggag cccctggtgc tgcgagagat 780  
 gtcgaagcag ggataccggg atggcctgcg ctttctgcag cggaacggcc tcctgaaccg 840  
 gcccaacccc ttgctggcgt tgccccccgc cggcccccac gcccagagg acaaggacca 900  
 ggcagtggag agcgcacaag cggaggatta ctcgcagctg cggggagaag atcacatct 960  
 ggagcacctg cccggccggc tcaatgaggc cctgctggag gcctgcgtgg agcccacgga 1020  
 cctgctgacc accctctcca acatgctgcc tgcgtctg gccacggcca tgatgggtcc 1080  
 ctacacgcgt cgcgtggaga ggcgtctgtc cttcaccatc cgcttgcgtgg agtggctgcc 1140  
 cgacgttccc gaggacatcc ggtggatgaa ggagcagacg ggcagcatct gcaagttacct 1200  
 ggtgatgcgc gccaagagga agtgcggcag gcacccgtcc tccaggctgc cggagcagg 1260  
 ggagctgcgc cgcgtccagg cgcgtccggc cgtgcggctg tctgcggcgc cttacagaga 1320  
 ggcactgcgc ggctggatgc gcaacaaccc tgcgtgggg gacgcgtgg ccaagtggg 1380  
 ggagtgcgc cgcgcgtgc tgctggcct cttctgcacc aacgtggcct tcccgcccga 1440  
 agctctgcgc atgcgcgcac cccggcggacc ggctccggc cccgcggacc cagcatcccc 1500  
 gcagcaccag ctggccgggc ctgccccctt gctgagcacc cctgctcccg aggcccgcc 1560  
 cgtgatcggg gcccggggc tgcgtggatgg cgcgccttc gaggaaacct gcctgagacg 1620  
 cttccattac cactgcgcag tgagatgagg ggactcacag ttgccaagag gggctttgc 1680  
 cgtggggccc ctcgcgcgtcc actcaccagc tgcgtgcact gagaggggag gttccacac 1740  
 ccctccccctg ggccgcgtgag gcccgcgcga cctgtgcctt aatctccct cccctgtgct 1800  
 gcccggagcac ctccccccgc ctttactcc tggaaacttt gcagctgccc ttccctcccc 1860  
 gttttcatg gtcgtgaa atatgtgtgt gaagaattat ttatttcgc caaagcacat 1920  
 gtaataaatg ctgcagccca aaaaaaaaaaaa aaaa 1954

&lt;210&gt; 25

&lt;211&gt; 1937

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3580770CB1

&lt;400&gt; 25

gcagttccgt gggcgtagta ggggatccac aagcgtttgc gaccagtgaa gttctttaca 60  
 agggtgagat ctgcacggga ggacccgagc gaggtctcg gcttgcagg aagccgggg 120  
 tccccgggaa gcgtggagtt caccgcgcga ctcgaagtgc ctttgcggaa ttatatctgg 180  
 gtgttggcac ccagccacta ttctgcctt gaaatgcacatc ctggtcacgg gtggggcat 240  
 ctcaggcatt gtaaaaggga tcattgcag cagcattggc acgattctaa aatcatgtgg 300  
 actccgaggta actgcctaa aatgcaccc ctatattaac atcgatgtc gcactttttc 360  
 accttatgaa cacggtaag tcttcgtctt aatatgtgtt ggagaaggatg atttagacct 420  
 tggagattat gaaagattt tggatattaa tctttataaa gacacaatag tcaccacggg 480  
 gaagatataat cagcatgtga tcaataaaaga gaggcgtgtt gattacccgg gaaaaacagt 540  
 gcaagttgtc ctcacatca ctgtatgtgtt ccaggatgtt gttatgatc aagccaaagg 600  
 gcccggggat gtaataaagg aagggccca aatatgcgtt attagatgtt gaggcaccat 660  
 tggagacatc gaagggatgc cgtttgtggc ggcgtttaga caattccagt ttaaggcgaa 720  
 aagagagaat ttctgtatc tccacgttag ctttgtccca cagctcgtg ctaccggaga 780  
 aaaaaaaaaacc aaacccaccc aaaacagcgt ccgcgcactg aggggttag gcctgtctcc 840  
 agatctgatt gtctgcccggaa gttcaacgcct catttagatg tttatgttttgc tttccacata 900  
 tatgttttgc cacgtgaacc ctgaacaggat catatgtatc catgatgtttt cttccacata 960  
 ccgagttccgt gtgttttagt aggaacaaag cattgtggaa tattttaaagg agagattgca 1020  
 cctgcccattc ggtgattctg caagtaattt gcttttaag tggagaaata tggctgacag 1080  
 gtatgaaagg ttacagaaaaa tatgtctccat agccctgggtt ggcaaataca ccaagctcag 1140  
 agactgctac gcctctgtgt tcaaaaggccct ggaacactca gcccctggccca tcaaccacaa 1200  
 gttgaatctg atgggtgatgg atatgcggcga gcacaacccct ggcaatttgg gaggacaat 1260  
 gagactggga ataagaagaa ctgttttcaaa aactgaaaat tcaatataa gggaaacttta 1320  
 tggatgttttgc cttttatag aagaaagaca cagacatgg ttcgaggtaa accctaaccct 1380  
 gatcaaacaa tttgagcaga atgacttaag tttgttagt caggatgtt atggagacag 1440

gatggaaatc attgaactgg caaatcatcc ttatTTgtt ggtgtccagt tccatcctga 1500  
 gttttcttct aggccgatga agccttcccc tccgtatctg gggctgttac ttgcagcaac 1560  
 tgggaacctg aatgcctact tgcaacaggg ttgcaaaactg tcttccagtg atagatacag 1620  
 tgatgcccagt gatgacagct tttcagagcc aaggatagct gagttggaaa taagctgaaa 1680  
 tgaatacatg actggaaata atggggactg cctgtgaggc ctctgaaata atggaggca 1740  
 agatgaagga actatctgaa gaaatcacta cactttaga gaatcccctt gtttccagc 1800  
 aaacatggga tgtaaaggct cacagggaaatc ctgataatac atacttctgt caaccagaac 1860  
 cagaggggta gtttctttt ccctccagag gcaacctttg atacttaaaa tatctgttagc 1920  
 tgattaaatt tcgcccc 1937

<210> 26  
 <211> 970  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3778612CB1

<400> 26  
 taataataat aacgtaatca tacctctagt catagcatac catttacgg gctcggcgca 60  
 ggcccgcggg gagcgcagcc cgccggagag actgatggag aggcaaaaac ggaaggcgga 120  
 catcgagaaa gggctgcagt tcattcagtc gacactaccc ctaaagcaag aagaatatga 180  
 ggccttctg ctcaagctgg tgcagaatct gtttgcgtgg ggcaatgatc tggccggga 240  
 gaaggactat aagcaggctc tggtgcagta catggaaggg ctgaacgtgg ccgactacgc 300  
 tgcctctgac caggtggccc tgcccccggg gctgctgtgc aagctgcattc tcaataggc 360  
 cgcctgtac ttcaccatgg gcctgtatga gaaggcgctg gaggacagcg agaaggcgct 420  
 gggccctgac agtggagata tccgggcgtt gttccgcggc gcaacgcgtc tcaatgaact 480  
 gggacgcccac aaggaggcct acgagtgcggc cagccgggtg tccctcgcccc tgccccacga 540  
 tgaaaagctg actcagcttgc gtcaggggacc ctggggatct ggggcttccct ggcctggcca 600  
 gagctggagc ccccacaggg taaggaagag agagtggag gcaagatgtg atggggagga 660  
 gggacagggaa gacccttta atgatggaggg taactatttc agttgtgagc cttcttagggc 720  
 cccaggctgg gaggctcaga ggactgaatc tgggacctgt gttccccccg gcaggcagg 780  
 acaagatggc atggcaagca tggggcgccc gtgggtgggg agggatgctg catttctcag 840  
 ctgggcagta atcaatttaa tggccttta aaatgtctgt gtattaaaaa tttaagaata 900  
 ccacacttta atattaaata ttcataaggt ctgtatctt gataataatg tagatgtttt 960  
 aataacaatt 970

<210> 27  
 <211> 1810  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 4574912CB1

<220>  
 <221> unsure  
 <222> 193, 196-198  
 <223> a, t, c, g, or other

<400> 27  
 gctgcatttgc gggcgccgtt cttagaagctg ggggtgcggc gtgcatttgc aggtttgggt 60  
 gtgaatttagt caagtatgaa aaccccggtt attcatcccc cagaagtgtatc tactttaaaa 120  
 attatatgtat cattataact cagaatcgaa tgtccttct tgcaaatatg ttccacacga 180  
 tggactgtgt tgnntgnnncc aggtatagct gtggaccaac tgtatatgtat catgcgcacc 240  
 ttggccatgc ttgctcatat gtttagatttgc atatcattcg aaggatccta accaagggtt 300  
 ttggatgcag catagtcatg gtgatgggtt ttacagatgt agatgataaa atcatcaaaa 360  
 gagccaaatgt gatgaatatttcccccgtt ccctcgccag tctttatagag gaagacttca 420  
 agcaggacat ggcagccctg aagggttctcc caccacggcgt gtacctgggg gtaaccgaaa 480  
 atattcctca gataatttctt ttcattgaag gaatttgc tcgtggaaac gcttattcaa 540  
 cggccaaaggc caatgtctac ttgcattgtc agtcttagagg agacaaggat ggcggaaattgg 600  
 tcggcgtggc ccctgggtcca gtcggagagc cagccggactc tgacaagcgt catgcgcgt 660  
 acttcgcctt gtggaaaggcg gccaaacccc aggaggtgtt ctggccctt ccctggggac 720

ccgggaggcc gggctggcac atcgagtgct ctgccatcg tagtatggta tttggaagtc 780  
 aactggatat ccatttcagg gggatagatt tagctttcc acatcatgag aacgaaattg 840  
 cacagtgcga agtcttcat cagtgcgagc agtggggaaa ttatcttctg cattctggc 900  
 atttgcacgc caaaggcaaa gaagaaaaaa tgcacaaatc attaaagaac tacattacta 960  
 ttaaggactt tctgaagacc tttcccccc atgtcttccg gttcttctgc ctgcggagca 1020  
 gctaccgctc agccatcgac tacagtgaca ggcgcacatgct ccaagctcg cagctgcctc 1080  
 tggggctggg ctcttcctg gaggacgcac gtgcctacat gaaggggagc ctggcctgcg 1140  
 gctccgtca ggaaggcatg ctgtgggaga ggcttcctccag caccacagg gccgtgaagg 1200  
 cggccttggc agatgactt gacacacccca gggtggttga tgccatcctg ggccttgcac 1260  
 accacgggaa tggacagctc agggcgtccc tgaaggaaacc tgaaggggccg agaagtccctg 1320  
 ctgtgtttgg tgccatcattc tcttactttt aacagtttt tgaaactgtt ggaatttctc 1380  
 tggcaaatca acagtaacgtt tcaggagacg gcagcgagc taccttgcatt ggtgtgg 1440  
 acgagctgtt ggggttccgg cagaaggatcc ggcagttgc gctggccatg cccgaggcca 1500  
 cgggggacgc cggcggcag cagtccttag aaaggcagcc cctgctggaa gcatgcgaca 1560  
 ccctgcgccc gggcctgact gcccacggca tcaacatcaa ggacagaagc agtacaacat 1620  
 ccacgtggga actgctggat caaaggacaa aagaccaaaa atcagcgggc tgaggatgga 1680  
 gcacagccat gaacctgctc acgacaagac gcacccatgc ttctcaggtt caaggcttta 1740  
 ttttaaagct tcctgtcggt gctgcttaggt cagcattaaa gtaaggcaac caacagtgaa 1800  
 aaaaaaaaaaa 1810

<210> 28  
 <211> 2162  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 5630806CB1

<400> 28  
 gaccgtgcgc gcggcacgag gggacggggt ccgactcaga aatggcggcc tccatgttct 60  
 acggcaggct agtggccgtg gccacccttc ggaaccaccg gcctcgacg gcccagcggg 120  
 ctgctgctca ggttctggg agttctggat tgtttataa ccatggactc caagtagacg 180  
 agcaacagca aaggaatctc tcaactacatg aatacatgag tatggaatta ttcaagaag 240  
 ctggtgtctc cgttccaaa ggatatgtgg caaagtccacc agatgaagct tatgcaattt 300  
 ccaaaaaatt agttcaaaa gatgtcgtga taaaggcaca gtttttagct ggtggtagag 360  
 gaaaaggaac atttggaaagt ggcctcaaag gaggagtgaa gatagtttc tctccagaag 420  
 aagcaaaagc tgtttctca caaatgattt ggaaaaatt gtttaccaag caaacgggag 480  
 aaaagggcag aatatgcaat caagtattgg tctgtgagcg aaaatatccc aggagagaat 540  
 actactttgc aataacaatg gaaaggatcat ttcaaggatcc ttttattttt ggaagttcac 600  
 atggtgtgtt caacatttggat gatgttgc tctgagactc tgaagcaata attaaagaac 660  
 ctattgtat tgaagaaggc atcaaaaagg aacaagctt ccagttgc cagaagatgg 720  
 gatttccacc taatattgtt gaatcagcag cagaaaacat ggtcaagctt tacagcctt 780  
 ttctgaaata cgatgcaacc atgatagaaa taaatccaat ggttggagat tcagatggag 840  
 ctgtatttgc tatggatgca aagatcaatt ttgactctaa ttccatgttccat cgccaaaaga 900  
 aatatcttgc tctacaggac tggaccagg aagatgaaag ggacaaagat gctgctaagg 960  
 caaatctcaa ctacatttggc ctcgatggaa atataggctg cctagtaaat ggtgctgggtt 1020  
 tggctatggc cacaatggat ataataaaac ttcatggagg gactccagcc aacttcctt 1080  
 atgttgggtt tggctaca gtcacatcaag taacagaagc attaaagctt atcacttcag 1140  
 ataaaaaggt actggctt ctggcaaca tttttggagg aatcatgcgc ttttgcgtt 1200  
 ttcacaggc tatagtcatg gcaatggaaa agcttggaaat taaaatctt gtttgcgtt 1260  
 ggttacaagg tacacgatc gatgtatgc aggcactgtat agcggacatg ggactttttt 1320  
 tacttgcgtt tgatgactt gatgtatgtt ctggatgtt tttttttttt tttttttttt 1380  
 tgaccttgc gaagcaagca catgtggatg tgaaatttca gtttgcgtt tttttttttt 1440  
 acccagtggc tggctgaaagg tgtaaatgt gctataatca ttaagaatac tttttttttt 1500  
 gttattttttt tttttttttt tagtgcgtt agattgtat tgccatcttgc gtcacacaaac 1560  
 atttaaaagg atttggactt gatgtatgtt tttttttttt tttttttttt tttttttttt 1620  
 catgtataat gcaatggatg tttttttttt gtcacacaaac gtcacacaaac 1680  
 aaaaacgttataat ttgttgcgtt tttttttttt tttttttttt tttttttttt 1740  
 gagtcctata aataagataa atacgaaatg aaagctttat tttttttttt tttttttttt 1800  
 tatatcttaat aacttagcctc attagtagat cgtatattttaa aataacatgtt tttttttttt 1860  
 agtggtttataat ttcacggccaa aatacatgtt aaatgtatca atcactat tttttttttt 1920  
 ctgcacaaaca ctgcacaaaca tttttttttt tttttttttt tttttttttt tttttttttt 1980  
 ttgttgcgtt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 2040  
 atattaagaa acacccgttgcgtt tttttttttt tttttttttt tttttttttt tttttttttt 2100

acaaaattaa gaatgtcaat ttaagttaat aaaaatctcc caatatgaaa aaaaaaaaaa 2160  
aa 2162

<210> 29  
<211> 1477  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc\_feature  
<223> Incyte ID No: 5854855CB1

<400> 29	gcaatccgta	ccctcagtgg	gttcccttgc	agtgggttcc	tttgccttcc	ggccatttat	60
tccgtctcc	cctttccct	gatgtatccc	ggcgccgtct	cctggctctg	ggggcccaagg	120	
gctccggatg	aggctcccg	ccgtcccgac	ccccgcaagg	gccagttgg	tgtcgccctc	180	
gttcttctgc	caccccatc	ggaagggtct	cgggtcttc	gggcactggg	tcccatcggt	240	
ccctcctcac	ctgggctcac	cctcgggggt	ctggccgtga	gcgagcacgg	gctcagcaac	300	
aagctgtgg	cttggagcgg	cgtcctcgag	tggcaggaga	agcgcagacc	ctactctgac	360	
tccactgtcaa	agctgaagcg	gaccctgccc	tgcacaaggct	acgtgaacca	aggcgagaac	420	
ctggagaccc	accagtggcc	gcagaagctg	atcatgcgc	tgatcccgca	gcagctgctg	480	
accacccctgg	gccccctgtt	ccggaactcc	cagttggcac	agttccactt	caccaacaga	540	
gactgcgtac	cgctcaagggg	gctctgcccgc	atcatggca	acggcttcgc	gggctgcata	600	
ctgttcccccc	acatctcccc	ctgtgagggt	cgcgtgtca	tgctccgtga	ctcgccaag	660	
aagaagatct	tcatggcct	catccccatc	gaccagagcg	gcttcgtcag	tgccatcccc	720	
caggtcatca	ccacccgca	gcaggcagtg	ggacctgggt	gtgtcaactc	aggcccagtc	780	
cagatgtca	acaacaagtt	tctggcatgg	agtgggtgtca	tggagtggca	ggagcccaagg	840	
cctgagccca	acagtccgtc	caagaggtgg	ctgcccattcc	acgtctacgt	gaaccagggg	900	
gagatccgtga	ggaccgagca	gtggccaagg	aagctgtaca	tgcagctcat	cccgcagcag	960	
ctgctgacca	ccctagtgcc	gctgttccgg	aactcgcgc	tggtccagtt	ccacttcacc	1020	
aaggacccctgg	agacactgaa	gagcctgtgc	cggatcatgg	acaatggctt	cgccggctgc	1080	
gtgcacttt	cctacaaaagc	atcgtgtgag	atccgcgtgc	ttatgtctt	gtactcttca	1140	
gagaagaaaa	tcttcattgg	cctcatcccc	catgaggacc	gcaactttgt	caacggcatc	1200	
ccggctgtca	ttgccaacca	gcagcaggtc	ctgcagcggg	accttgagca	ggagcaacag	1260	
caacgagggg	tgggggggtt	gtggttaccc	cgggctgggg	ccctccagga	gtcacaagatg	1320	
aggccccccgc	agagactgg	gacacgttc	tgagcagggg	cccttgggg	cttcaactgc	1380	
ccagcaacat	ggaggatgg	gtcctgaggc	cttccaaggac	ggtccccacc	cctctacgtt	1440	
tcccaataa	agccttttaa	aaacctgaaa	aaaaaaa			1477	

<210> 30  
<211> 1660  
<212> DNA  
<213> *Homo sapiens*

<220>  
<221> misc\_feature  
<223> Incyte ID No: 5993973CB1

```

<400> 30
gggccttccg cagctgcaga gcctcaacct cagcggcaac cggctgcgcg agccgccagc 60
cgacctggcg cgctgcgccc cgccctgcg gaggctcaac ctcaccggca attgcctaga 120
ctcccttccc gccgagctct ttcgccccgg cgcgctgccc ctgctcagtg aactggcg 180
tgctgacaac tgcctccgag aactcagccc cgacatcgcc cacctggcct cgctcaagac 240
gttggacctc tcgaacaacc agctgagcga gatccctgca gagcttgcgg actgccccaa 300
gctcaaggag atcaatttcc gtggaaacaa gctgagggac aagcgcctgg agaagatggt 360
cagcggctgc cagaccagat ccacccctgga gtacctgcgc gtcggaggcc gtgggtggcg 420
gaaggggcaag ggccgtgcgg agggctcggg gaaggaagag agccggagga agaggaggga 480
gaggaagcag aggcgggaaag gtggtgatgg ggaggagcag gacgtgggag atgcggcccg 540
gctgctgctc agggctctgc acgtctctga aaaccccgta cctctgacag tcagagttag 600
ccccgaggtc cggatgtgc gcccctacat tggggggcc gtgggtgcgg gcatggacct 660
gcagccaggg aatgcactca agcgtctctc agccgtcgac aacaagctcc acgaagatct 720
ctgtgagaag aggacggctg ccaccccttgc caccacacgg cttccgtgcgg tcaaaggggcc 780
cctgctgtac tgcgccccggc cccccacagga cctcaagatt gtcccccttgg ggcggaaaaga 840
agccaaggcc aaggagctgg tgcggcagct gcaagctggag gccgaggagc agaggaagac 900
gaagaagcgg cagagtgtgt cggccctqca caqataacctt cacttgcgtt atggaaaatgt 960

```

aaattacccg tgccttgcgg atgcagacgg tgcgtgtgatt tcctccac caataaccaa 1020  
cagtgagaag acaaaggta agaaaacgac ttctgatttgg ttttggaaag taacaagtgc 1080  
caccagtctg cagatttgcg aggatgtcat ggatccctc attctgaaaa tggcagaaat 1140  
gaaaaagtac acttagaaa ataaagagga aggatcaactc tcagatactg aagccgatgc 1200  
agtctctggc caacttccag atcccacaac gaatcccagt gctggaaagg acggccctc 1260  
ccttctgggt gtggagcagg tccgggtgtt ggatctggaa gggagcctga aggtgggtgt 1320  
cccggtccaaag gcccacgtgg ccaactgcccc tccccacgtg actgtcgatgc gctgacgcca 1380  
ggggccgcctg tccgcgtttt tttggccgtt tttgcggagg ttctatgcg gcaatgctga 1440  
attatccgtt agatttcac cccagttttt ttgttgggtt tttttttt agatggagtc 1500  
tcgctctgtc gccaggtcg agtgcagtgg cgtgatctcg agtcaactgca gcctgtgtct 1560  
cctgggttca agcgattctc ctgcctcagc ctcccaagta gctggacta caggtgtgt 1620  
ccactaagct cagctaattt ttgttattttt agtagagacg 1660